DENON

Hi-Fi Personal Component System

SERVICE MANUAL PERSONAL COMPONENT SYSTEM

MODEL D-60











 The D-60 Personal Component System consists of the following:

Receiver Section	UDRA-60
Remote Control Unit	RC-148
Cassette Deck Section	UDR-60
CD Section	UCD-60
Speaker Section	USC-60

MAIN FEATURES

- 1. Full-fledged horizontal loading double cassette deck
 - High quality deck with a performance and design above its class.

 Proset aquality settings for selecting the design application.
- 2. Preset equalizer settings for selecting the desired equalization pattern
 - Selection of equalization pattern suited for different types of music.
- 3. SDB control
 - The Super Dynamic Bass control circuit makes for clear bass sound.
- 4. Editing functions
 - Tracks on a CD can be selected automatically to fit onto sides A and B of a tape when recording.
- 5. CD SRS function
 - CDs can be recorded at the touch of a button.
- Three-piece separate configuration with three equal-sized units in a sleek design
 - Freedom of layout for easy visual and operation quality.
- 7. Easy-to-use remote control unit
 - The simple, functionally organized remote control unit allows operation from a distance.

BEFORE USING

Moving the system

To prevent short-circuiting or damage of connection cords, be sure to unplug the power cord and disconnect all connection cords before moving the system.

In addition, always remove CDs before moving the system. If not, the CD may be scratched.

· Before turning the power on

Check again that all connections are proper and that the connection cords are not damaged. Always set the power switch to the STANDBY position before disconnecting connection cords.

- Humming may be produced if the system is set near a TV set or other audio component or its connection cords. If this happens, try changing the position of the equipment and connection cords.
- Do not move the system abruptly from a cold place to a warm place, as this may cause dew (water droplets) to form in the set, preventing proper operation. If this happens, wait one hour before using the system.
- Be sure to keep this manual

The illustrations used in this manual may differ from the actual system.

Check that the following parts are included in the package aside from the main unit:

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NIPPON COLUMBIA CO., LTD.

GENERAL SECTION-1

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Only discs with the mark at the right can be played on this system.



Dolby noise reduction manufactured under license from Dolby Laboratories Licensing corporation.

"DOLBY" and the double-D symbol () are trademarks of Dolby Laboratories Licensing Corporation.

Receiver Unit	UDRA-60L
Cassette Deck Unit	UDR-60
CD Player Unit	UCD-60
Speaker System Unit	USC-60
: Top Cushion	503 1039 003
: Top Spacer	502 9126 009
: Top Spacer	502 9126 012
Space Cushion	502 9125 000
: (Master) Carton	501 9226 100
Envelope Sub Assy	GEN 2068
├-: Polycover	505 0178 000
: Inst. Manual	511 2361 001
: Inst. Manual	511 2361 014
Loop Antenna	231 0922 009
Remocon (RC-148)	499 0228 008
└-FM Ant. Assy	395 0019 025
FM Ant. Adaptor	529 0072 005

GENERAL SECTION-1

SPECIFICATIONS

Receiver Section (UDRA-60)

Power Amplifier Section

Rated Output Power:

30 W + 30 W (8 ohms 40 Hz - 20 kHz T.H.D. 0.5%)

Total harmonic distortion:

Preamplifier Section

Input sensitivity/impedance:

PHONO: 2.5 mV/47 kohms, LINE: 150 mV/10 kohms ON/OFF (80 Hz + 8 dB)

Super Dynamic Bass: **Tone Control:**

BASS: 100 Hz ± 8 dB TREBLE: 10 kHz ±8 dB

FM Section

Tuning frequency range: Usable sensitivity:

87.50 MHz ~ 108.00 MHz (50 kHz step) 1.5 µV (14.8 dBf)

0.1% at 1 kHz

Signal to noise ratio (A-weighted):

Total harmonic distortion: Frequency response:

Mono: 78 dB Stereo: 75 dB Mono: 0.1% Stereo: 0.3% 20 Hz - 15 kHz + 0.5 dB, -2 dB

Stereo separation:

40 dB (1 kHz)

MW Section

Tuning frequency range: Usable sensitivity:

522 kHz ~ 1611 kHz (9 kHz step)

18 µV 52 dB

Signal to noise ratio:

LW Section Tuning frequency range:

153 kHz ~ 279 kHz (1 kHz step)

Usable sensitivity: 35 µ V Signal to noise ratio:

52 dB

Power supply:

AC 230 V, 50 Hz

Power consumption:

80 W

Dimensions:

270 (W) \times 86.5 (H) \times 248 (D) mm (10-5/8" \times 3-13/32" \times 9-49/64")

4 kg (8 lbs 13 oz)

Weight: CD Player Section (UCD-60)

Audio Section

Sampling frequency: Frequency response: Dynamic range:

44.1 kHz 5 Hz ~ 20 kHz 90 dB

Signal to noise ratio: Total harmonic distortion: 90 dB 0.05% (1 kHz) Digital

Output filter: **Dimensions:**

270 (W) \times 86.5 (H) \times 235 (D) mm (10-5/8" \times 3-13/32" \times 9-1/4")

1.9 kg (4 lbs 3 oz)

Weight: Cassette Deck Section (UDR-60)

Type: Head

Horizontal 4-track 2-channel Auto Reverse Double Cassette Deck

Record & playback:

Hard permalloy (P head & R/P head)

Erase:

Double gap ferrite head × 1

Tape speed:

4.75 cm/S

Usable tapes:

Normal, chrome and metal tapes

Audio Section

Frequency response:

50 Hz \sim 16 kHz \pm 3 dB (metal tape) 60 dB (Dolby B NR)

Signal to noise ratio: **Dimensions:**

270 (W) × 86.5 (H) × 235 (D) mm (10-5/8" × 3-13/32" × 9-1/4")

Weight:

3 kg (6 lbs 10 oz)

Speaker Section (USC-60)

Type:

2-way Speaker System

Input impedance: Frequency response: 8 ohms 50 Hz ~ 20 kHz

Max input power: Sound pressure level: 50 W

89 dB (1 m • 1W)

Dimensions:

172 (W) \times 257 (H) \times 235 (D) mm (6-25/32" \times 10-1/8" \times 9-1/4")

Weight:

4 kg (8 lbs 13 oz)

Remote Control Unit (RC-148)

Type:

Infrared pulse

Number of buttons:

Batterise:

R6P/AA type (two batteries)

Max. external dimensions:

47 (W) \times 173 (H) \times 14 (D) mm (1-27/32" \times 6-13/16" \times 35/64")

Weight:

100 g (approx. 3.5 oz) (including batteries)

* Maximum dimensions include controls, jacks, and covers. (W) = width, (H) = height, (D) = depth

• For improvement purposes, specifications and functions are subject to change without advanced notice.

NOTE ON USE/HINWEISE ZUM GEBRAUCH/OBSERVATIONS RELATIVES A L'UTILISATION



- Avoid high temperatures
 Allow for sufficient heat dispersion when installed on rack.
- Vermeiden Sie hohe Temperaturen Beachten Sie, daß eine zureichende Luftzirkulation gewährleistet wird, wenn das Gerät auf ein Rega gestellt wird.
- Tenir compte d'une dispersion de chaleur suffisante lors de l'installation sur une étagère.



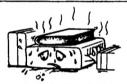
- Handle the power cord carefully.
- Gehen Sie vorsichtig mit dem Netzkabei um. Halten Sie das Kabel am Stecker, wenn Sie den Stecke herausziehen.
- Manipuler le cordon d'alimentation avec précaution. Tenir la prise lors du débranchement du cordon.



- Keep the set free from moisture, water, and dust.
 Halten Sie das Gerät von Feuchtigkeit, Wasser un Staub fern.
- Protéger l'appareil contre l'humidité, l'eau et la poussière.



- Unplug the power cord when not using the set for los periods of time.
- Wenn das Gerät eine längere Zeit nicht verwendet werden soll, trennen Sie das Netzkabel vom Netzstecker.
- Débrancher le cordon d'alimentation lorsque l'appare n'est pas utilisé pendant de longues périodes.



- *(For sets with ventilation hole
- Do not obstruct the ventilation holes.
- Ne pas obstruer les trous d'aération.



- Do not let foreign objects in the set.
 Keine fremden Gegenstände in das Gerät kommen lassen
- Ne pas laisser des objets étrangers dans l'appereil.



- Do not let insecticides, benzene, and thinner come in contact with the set.
- Lassen Sie das Gerät nicht mit Insektiziden, Berizin ode Verdünnungsmitteln in Berührung kommen.
- Ne pas mettre en contact des insecticides, du benzène et un diluent avec l'appareil.



- Never disassemble or modify the set in any way.
 Versuchen Sie niemals das Gerät auseinander zu nehmen oder auf jegliche Art zu verändern.
- Ne jamais démontre ou modifier l'appareil d'une mai
 ière ou d'une autre.

Irregularities

• If the system should smoke or produce strange smells, immediately set the power switch to the STANDBY position, unplug the power cord, and contact your store of purchase.

Unregelmäßigkeiten

 Sollte das Gerät Rauch produzieren oder eigenartig riechen, stellen Sie den Netzschalter sofort auf die Position STANDBY (Bereitschaft), ziehen Sie den Netzstecker heraus und kontaktieren Sie Ihren Händler.

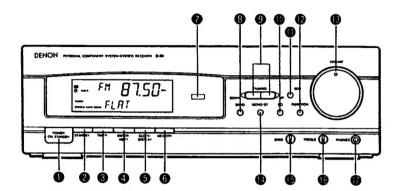
Anomalies

 Si de la fumée sort de la chaîne ou des odeurs bizarres, placer l'interrupteur d'alimentation immédiatement sur la position de veille (STANDBY), débrancher le cordon d'alimentation et contacter le distributeur.

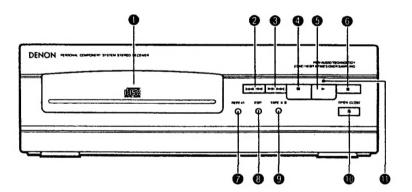
"SERIAL NO. ______
PLEASE RECORD UNIT SERIAL NUMBER ATTACHED TO THE REAR OF THE CABINET FOR FUTURE REFERENCE"

FRONT PANEL/FRONT PLATTE/PANNEAU AVANT

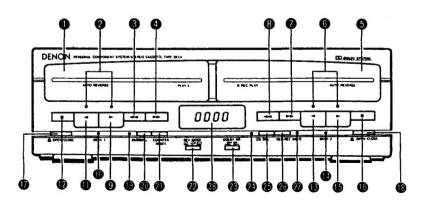
RECEIVER RECEIVER RECEPTEUR



CD PLAYER CD-SPIELER LECTEUR CD



CASSETTE DECK CASSETTENDECK PLATINE CASSETTE



SECTION-1

* The D-60 Stereo Component System consists of the following:

·	1
Receiver Section	UDRA-60
CD Player Section	UCD-60
Cassette Deck Section	UDR-60
Speaker System Section	USC-60
Remote Control Unit	RC-148

EG-Konformitätserklärung

CE

Die DENON Electronic GmbH Halskestr. 32 4030 Ratingen 1

erklärt als Hersteller/Importeur, daß das in dieser Bedienungsanleitung beschriebene Gerät der Technischen Vorschrift 868/1989 nach Amtsblattverfügung im Amtsblatt des Bundesministers für Post und Telekommunikation entspricht.

Das Inverkehrbringen der vorliegenden Typenreihe ist der Prüfstelle der Bundesrepublik Deutschland (ZZF) fristgerecht angezeigt worden.

DENON-Electronic GmbH Halskestr. 32, 4030 Ratingen 1

CLASS 1 LASER PRODUCT LUOKAN 1 LASERLAITE KLASS 1 LASERAPPARAT

ADVARSEL:

USYNLIG LASERSTRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION.

UNDGÅ UDSAETTELSE FOR STRÅLING.

VAROITUS!

LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖÖHJEESSA MAINITULLA TAVALLA SAATTAA ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YIITTÄVÄLLE NÄKYMÄTTÖMÄLLE LASERSÄTEILYILE.

VARNING-

OM APPARATEN ANVÄNDS PÅ ANNAT SÄTT ÄN I DENNA BRUKSANVISNING SPECIFICERATS, KAN ANVÄNDAREN UTSÄTTAS FÖR OSYNLIG LASERSTRÅLNING SOM ÖVERSKRIDER GRÄNSEN FÖR LASERKLASS 1.

 This compact disc player is capable of playing discs which have the mark at right.



"CLASS 1 LASER PRODUCT"

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Check that the following parts are included in the package aside from the main unit:

① Operating Instructions	1
② FM Antenna	•
3 AM Loop Antenna	
Remote Controller	
⑤ R6P/AA batteries	
6 Speaker Cord	-
(7) FM Antenna adnator	

MAIN FEATURES

- 1. Full-fledged horizontal loading double cassette deck
- High quality deck with a performance and design above its class.
- 2. Preset equalizer settings for selecting the desired equalization pattern
- Selection of equalization pattern suited for different types of music.
- 3. SDB control
- The Super Dynamic Bass control circuit makes for clear bass sound
- 4. Editing functions
- Tracks on a CD can be selected automatically to fit onto sides A and B of a tape when recording.
- 5. CD SRS function
 - . CDs can be recorded at the touch of a button.
- Three-piece separate configuration with three equal-sized units in a sleek design
- Freedom of layout for easy visual and operation quality.
- 7. Easy-to-use remote control unit
 - The simple, functionally organized remote control unit allows operation from a distance.

2 BEFORE USING

Note the following points before using the stereo components

- . Moving the system
 - To prevent short-circuiting or damage of connection cords, be sure to unplug the power cord and disconnect all connection cords before moving the system.
- In addition, always remove CDs before moving the system. If not, the CD may be scratched.
- · Before turning the power on
- Check again that all connections are proper and that the connection cords are not damaged. Always set the power switch to the STANDBY position before disconnecting connection cords.
- Humming may be produced if the system is set near a TV set or other audio component or its connection cords. If this happens, try changing the position of the equipment and connection cords.
- Do not move the system abruptly from a cold place to a warm place, as this may cause dew (water droplets) to form in the set, preventing proper operation. If this happens, wait one hour before using the system.
- . Be sure to keep this manual.
- The illustrations used in this manual may differ from the actual system.

3 CONNECTIONS

CAUTION

- Do not plug the power cord into the power outlet until all connections are completed. Connect properly as shown in the diagram.
- Check the right and left channels, and be sure to connect the speaker's L terminals to the amplifier's L terminals, the speaker's R terminals to the amplifier's R terminals.
- Be sure to insert the plugs securely. Incomplete connections can cause noise.
- This system includes digital circuitry, so it may cause problems with the colors on a TV. If so, turn the system's power switch off.
- Note that if the input jacks selected with the FUNCTION selectors are open (if nothing is connected), the sound may leak to another component connected to different input jacks.
- Note that grouping connection cords (pin-plug cords) together with power cords or setting them near power transformers can cause noise.
- This system consists of precision components using microprocessors. Avoid using it in places where there is much external noise. The system may not operate properly if used in is such places, but this is not a problem with the system. If it should function improperly, perform the desired operation once again.

PREPARE

1 Assembling the Loop Antenna Assemble the included AM loop antenna as shown in the diagram.



- ① Undo the clasp.
- 2 Insert the AM loop antenna into the antenna stand.

2 Connecting the System Connector Cord

When connecting the system connector cord, press on the center of the connector plug until you hear a click. When disconnecting the system connector cord, press the sides of the connector plug towards the middle and pull.





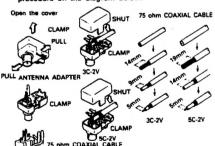


NOTE

- Note that disconnecting by pulling on the cord can damage it.
- Keep the power cord unplugged when connecting the system connector cord.
- Note that connecting the system connector cord when the power cord is plugged into a power outlet may result in improper operation.

3 Connecting the Included Antenna Adapter

Connect the coaxial cable and antenna adapter using the procedure on the diagram below.

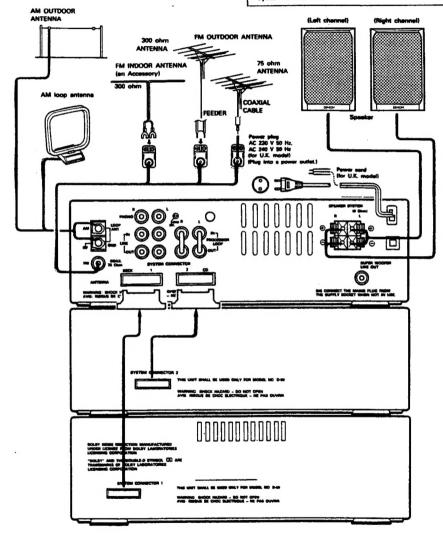


SYSTEM CONNECTIONS

Keep the FM and AM antenna wires away from the system connector wire to prevent noise from entering the antennas.

peaker system connections

Connect the speaker system for the left channel (the left side as seen from the front) to the L terminals, the speaker system for the right channel to the R terminals. Connect the speaker systems before inserting the system connector.



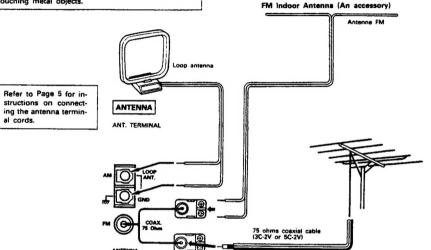
GENERAL SECTION-1

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Installing the AM Loop Antenna

Tune in an AM station (refer to Page 12), listen to the sound, then install the antenna in a position as far from the set as possible in which distortion and noise are minimum. In some cases it is better to connect with the polarities inverted. Good reception of AM stations is not possible if the loop antenna is not connected or if it is touching metal objects.

Connect the antenna to the FM terminals (refer to page 12), tune in an FM broadcast, then move the antenna to find a position in which distortion and noise are minimum. Secure the ends of the antenna in that position using tape, tacks, etc.



CAUTION

Use an outdoor antenna if reception is not good with the included antenna. Change the location, height, and direction of the antenna to find the position where reception is best, then fix the antenna in that position.

Places for Installing Outdoor Antennas

- Install the outdoor antenna facing a broadcast station's transmission antenna.
 When surrounded by buildings or hills, try changing the direction to obtain optimum reception.
- Do not install the antenna under power lines. It is extremely dangerous for the antenna to come into contact with a power line.
- Install away from roads or train tracks to prevent noise from cars and trains.
- Do not install the antenna too high, as it may be hit by lightening.

Connect the outdoor antenna using a 75 ohms coaxial cable. This protects against external noise.

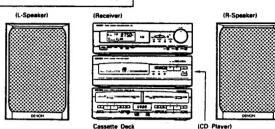
INSTALLING THE SETS

After completing the system connections and antenna connections, install the sets as shown on the diagrams below.

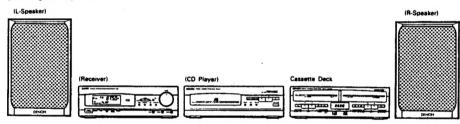
[Stacking]

CAUTION:

Set the receiver (UDRA-60) on the top.

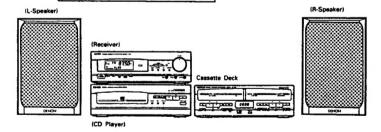


[Installing Side by Side]



[Partial Stacking]

CAUTION: Set the receiver (UDRA-60) on the top.



CAUTION

- Do not plug the power cord into the power outlet until all connections are completed. Connect properly as shown in the diagram.
- This system includes digital circuitry, so it may cause problems with the colors on a TV. If so, turn the system's power switch off.

A PART NAMES AND FUNCTIONS

RECEIVER

POWER ON/STANDBY switch

When pressed once, the power turns on and the display lights up. The set will begin to function normally approximately 4 to 5 seconds after the power is turned on. Press the button again to turn the power off.

STANDBY (timer standby) button

Press this button to turn the timer on. When pressed once, the standby indicator ((A)) appears on the display, and when pressed again, the standby indicator turns off. The timer will not function when the standby indicator is off.

TIMER button

This is used to set the timer.

ENTER/NEXT button

Use this to move on to the next step when setting the clock and timer.

CLOCK/DISPLAY button

Press once to display the time, once again to return to the previous display.

MEMORY button

Use this to store reception frequencies and modes at the preset channels.

Remote control sensor

This is where the signals from the remote control unit are received.

BAND selector button

Use this to switch between the FM, AM (MW) and AM (LW) bands. The band changes each time the button is pressed, and the currently set band is indicated on the display.

TUNING UP and DOWN buttons

Use these to tune in FM or AM (MW and LW) stations and when setting the clock and timer.

PRESET EQ (equalizer) button

Use this to switch the equalizer setting.

SDB (Super Dynamic Bass) button

Press this button for more powerful bass sound. Press again to turn the SDB function off.

FUNCTION selectors

Use these to select the program source.

VOLUME control

Use this control to adjust the volume. Turn clockwise (()) to increase the volume, counterclockwise () to decrease it.

MONO/ST. (FM stereo mute/mono) selector button

CAUTION:

This button will not function when receiving AM broadcasts.

(For FM reception)

STEREO: Use this mode to receive FM broadcasts in stereo. ("AUTO" appears on the display.)

The muting circuit is activated to cut noise between stations.

MONO: In this mode, FM broadcasts are received in monaural, regardless of whether they are broadcast in monaural or stereo. Set to the mono mode if there is much noise

in the stereo mute mode (with "AUTO" displayed) or if the signals are weak.

BASS control

Use this to adjust the bass.

TREBLE control

Use this to adjust the treble.

PHONES lack

When using headphones, plug them in here.

The sound from the speakers is cut when headphones are plugged in.

Use headphones equipped with a stereo mini-plug (3.5mm in diameter).

CD PLAYER

Disc tray

Load discs here.

144 44 (automatic/manual search reverse button) Press this button to move the pickup back to the

beginning of the desired track.

Press in the play or pause mode to move back a number of tracks equal to the number of times the button is pressed.

▶ ▶ (automatic/manual search forward button)

Press this button to move the pickup forward to the

beginning of the desired track.

Press in the play or pause mode to move forward a number of tracks equal to the number of times the

button is pressed.

0.5 seconds.

* The automatic search function is set if the button is released within 0.5 seconds, and the manual search function is set if the button is held in for more than

II PAUSE button

Press this button to stop playback temporarily. Press the PLAY button to resume playback.

PLAY button

Press this button to start playing the disc. If pressed when the disc holder is open, the disc holder

closes and playback begins.

■ STOP button

Press this button to stop playback.

REPEAT button

Press this button for repeat playback.

EDIT button

Press this button for edited recording (dividing the tracks to be recorded to fit onto sides A and B of a tape according to the tape's length).

TAPE A/B button

Press this button during editing to switch the display between the display for side A and the display for side B of the tape.

▲ OPEN/CLOSE button

Press this to open and close the disc holder.

The disc holder opens out when the button is pressed once, and closes when the button is pressed again. If a disc is loaded, the total number of tracks and total time of that disc appears on the display several seconds after the disc holder is closed.

Disc play indicator

This lights when a disc is playing, and flashes when in the pause mode.

C

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CASSETTE DECK

O Cassette tray: Deck 1

The cassette tray opens out when the OPEN/CLOSE button
is pressed. Insert the cassette tape with the side on which the tape is exposed facing away from you. To close the cassette tray, press the OPEN/CLOSE button
again.

2 Tape direction indicators: Deck 1

These indicate the direction of playback of the tape in Deck 1 as well as whether or not a tape is loaded. The indicators flash when the tape is being fast-forwarded or rewound. The tape direction indicators for Deck 2 remain off when the tape in Deck 1 is moving.

44 (rewind) button: Deck 1

Press this to rewind the tape in Deck 1. Also, if pressed during playback in the program (forward) direction, the tape is rewound to the beginning of the currently playing selection, and if pressed during playback in the foreverse) direction, the tape is forwarded to the beginning of the next selection (on the back side of the tape).

(fast-forward) button: Deck 1

Press this to fast-forward the tape in Deck 1. Also, if pressed during playback in the \$\infty\$ (forward) direction, the tape is fast-forwarded to the beginning of the following selection, and if pressed during playback in the \$\infty\$ (reverse) direction, the tape is rewound to the beginning of the currently playing selection (on the back side of the tape).

G Cassette tray: Deck 2

When the OPEN/CLOSE button is pressed, the cassette tray opens out. Place the cassette tape in the tray with the side on which the tape is exposed facing the back. To close the cassette tray, press the OPEN/CLOSE button again.

Tape direction indicators: Deck 2

These indicate the direction of playback of the tape in Deck 2 as well as whether or not a tape is loaded. The indicators flash when the tape is being fast-forwarded or rewound. The tape direction indicators for Deck 1 remain off when the tape in Deck 2 is moving.

(fast-forward) button: Deck 2

Press this to fast-forward the tape in Deck 2. Also, if pressed during playback in the (forward) direction, the tape is fast-forwarded to the beginning of the following selection, and if pressed during playback in the (reverse) direction, the tape is rewound to the beginning of the currently playing selection (on the back side of the tape).

(rewind) button: Deck 2

Press this to rewind the tape in Deck 2. Also, if pressed during playback in the ▶ (forward) direction, the tape is rewound to the beginning of the currently playing selection, and if pressed during playback in the ◀ (reverse) direction, the tape is forwarded to the beginning of the next selection (on the back side of the tape).

(forward play) button: Deck 1

Press this button to begin playback in the forward direction on Deck 1.

Deck 1 indicator

This indicator lights when Deck 1 is selected.

This indicates the deck for which the counter is functioning. Normally, the indicator on the deck which has been operated lights.

(reverse play) button: Deck 1

Press this button to begin playback in the reverse direction on Deck 1.

(Stop) button: Deck 1

Press this button when the tape in Deck 1 is moving to stop the tape.

(reverse play) button: Deck 2

Press this button to begin playback in the reverse direction on Deck 2.

Deck 2 indicator

This indicator lights when Deck 2 is selected.

This indicates the deck for which the counter is functioning. Normally, the indicator on the deck which has been operated lights.

(forward play) button: Deck 2

Press this button to begin playback in the forward direction on Deck 2.

(B) (stop) button: Deck 2

Press this button when the tape in Deck 2 is moving to stop the tape.

The tape direction indicators for Decks 1 and 2 (and a) also indicate whether or not cassette tapes are loaded. The indicators remain off if no cassette tape is loaded when in the stop mode.

OPEN/CLOSE button: Deck 1 Press this button to open and close the cassette tray.

Press this button to open and close the cassette tray.

Dubbing indicator

This lights during dubbing.

DUBBING button

Dubbing (copying) a tape from Deck 1 onto Deck 2 is possible simply by pressing this button.

COUNTER RESET button

Press this button to reset the tape counter to 'DDDD'.

REV. MODE switch

Use this to set the reverse mode to one of the following modes:
(Single side mode),
(Double side (reverse) mode),
(continuous mode).

Refer to Page 18.

DOLBY NR selector switch

Use this switch to select the Dolby NR mode, ON, OFF. During playback, set this switch to the same mode in which the tape was recorded.

CD SRS indicator

This lights during recording with the CD SRS function.

CD SRS (CD synchronized recording button)
Use this button for CD synchronized recording. Refer to
Page 22.

CD SRS button

This button is used for recording CDs (Page 22). Pay attention to the following:

- ① Recording begins on the tape as soon as this button is pressed, so be sure to wind up the leader tape beforehand.
- ② If this button is pressed while a CD is playing, the CD SRS indicator () lights but recording onto the tape does not begin. Stop the CD first before pressing this button.
- REC/REC MUTE (recording / recording mute) button
 To record, press the REC/REC MUTE button, then press
 the ▶ or ◀ button.

If only the REC/REC MUTE button is pressed, the deck is set to the recording pause mode. If this button is pressed during recording, the recording mute mode is set for approximately 5 seconds, after which the deck is set to the recording pause mode. To resume recording, press the part of pause mode.

When the REC/REC MUTE button is pressed while the cassette deck is in the stop mode, a blank section of approximately 5 seconds is created on the tape, after which the deck is set to the recording pause mode. If the REC/REC MUTE button is held in, a blank section is created on the tape until the point where the button is released.

Recording pause mode

Recording of the CD begins if the CD player's PLAY key is pressed during the recording pause mode.

REC/REC MUTE indicator

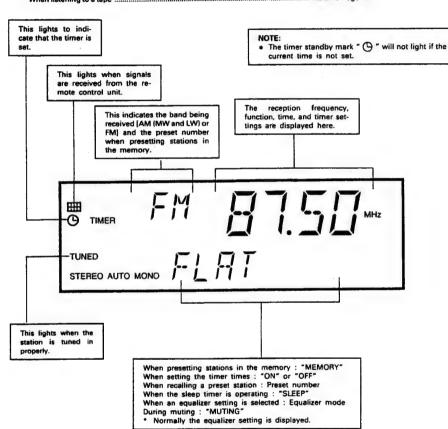
This lights when the recording or recording standby mode is set using the REC/REC MUTE button •, and flashes during the recording mute mode.

Tape counter

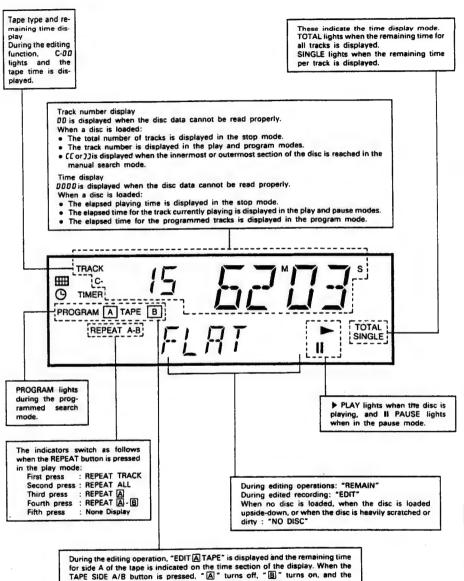
The tape counter functions for the deck whose indicator (or) is lit.

NOTE

 After the power cord is plugged into an outlet, a mechanical sound is produced from the cassette deck when the power switch is turned on the first time only. This is the sound of the cassette mechanism being set to the proper operating position, and is not a problem with the deck. This display indicates various types of information for different modes depending on which section of the system is being used, as follows:



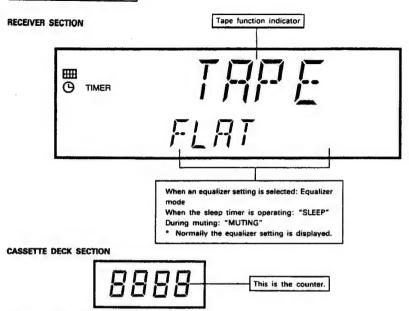
CD PLAYER DISPLAY



remaining time for side A of the tape is indicated in the same way.

The PLAY indicator lights when a disc is playing, and the II PAUSE indicator

lights when the pause mode is set.



Remaining Tape Indicators

These indicators notify that the tape is reaching the end during recording and playback. The indicators differ according to the diameter of the tape hub.

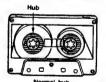
This starts flashing when the tape is nearing the end during recording or playback, then stops flashing and remains lit once the end of the tape is reached.

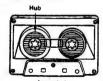
 The approximate remaining time on the tape after the different sections of the tape counter start flashing one by one is as follows:

Hub diameter	Norm	al hub	Large hub	
Tape length	Playback in forward direction	Playback in reverse direction	Playback in forward direction	Playback in reverse direction
C-46	Approx. 5 minutes	Approx. 5 minutes	Approx. 1 minutes	Approx. 1 minutes
C-60	Approx. 5 minutes	Approx. 5 minutes	Approx. 1 minutes	Approx. 1 minutes
C-90	Approx. 6 minutes	Approx. 6 minutes	-	-

* There are no C-90 tapes with large hubs.

* Large hubs are hubs with a diameter of about 27mm. Note that if the hub is larger than this, there may be a major error in indicating the remaining time.





NOTE

The remaining tape times shown on the table at the right are only rough estimates. In addition, the tape end indication may not work when using cassettes with thick tapes or cassettes on which the diameter of the wound tape is large.

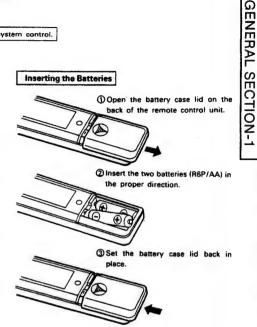
Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY", the double-D symbol 🔟 is trademarks of Dolby Laboratories Licensing Corporation.

5 REMOTE CONTROL UNIT

The D-60 comes with a remote control unit (RC-148) for system control.

Cautions on Use

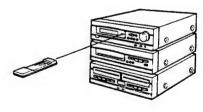
- . Use R6P/AA batteries in the remote control unit.
- · Replace the batteries with new ones after approximately one year of use, though this time depends on the frequency with which the remote control unit is operated.
- · If the remote control unit does not function when operated from close to the main unit, replace the batteries with new ones, even if the previous batteries have been used for less than a year.
- . Insert the new batteries in the proper "+" and "-" directions, following the marks on the remote control unit's battery compartment.
- . To make the batteries last longer, remove them when not using the remote control unit for long periods of time.
- · To prevent damage or leakage of battery fluid:
- . Do not use an old battery together with a new one.
- . Do not use two batteries of different types together.
- . Do not short-circuit, take apart, heat, or dispose of batteries in flames.
- . If the battery fluid should leak, carefully wipe all the battery fluid off the inside of the battery compartment, then insert new hatteries



Remote Control Unit

CAUTIONS:

- The remote control unit may not function properly if the infrared sensor (remote control sensor) is exposed to direct sunlight or other strong light, or if there is an obstacle between the remote control unit and the remote control sensor.
- . When adjusting the volume from the remote control unit, the volume will stop changing if the remote control transmitter is moved away from the remote control sensor. Press the button again to continue changing the volume.
- The "signal received" mark "IIII " does not light when the EQ key on the remote control unit is pressed.
- If I appears on the tuner's display due to incidental light even though the remote control unit has not been operated, it is best to move the set or place it in a different direction. However, this will not cause malfunction.
- . Do not press buttons on the remote control unit and on the main unit at the same time. This will lead to malfunction.
- When the MUTE button on the remote control unit is pressed, the sound is muted and remains muted when the power switch is turned off then turned back on. In such cases, press the MUTE button on the remote control unit again.

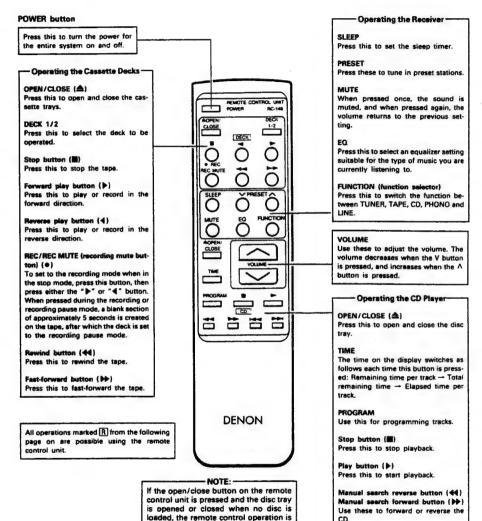


The remote control sensor is located on the right side of the display window on the receiver. Point the remote control unit at the sensor when using it, as shown in the diagram. The remote control unit will function from a maximum direct distance of approximately 7 meters. This distance will decrease, however, if there is an obstacle between the remote control unit and the sensor, or if used the remote control unit is used from an angle.

The "mark lights in the bottom corner of the receiver's display when signals are received from the remote control

6 SETTING THE CURRENT TIME

Setting the Current Time (The time is displayed in the 24-hour mode)



given priority, and nothing will happen when the play button or other buttons

If this happens, press the open/close

button on the main unit before using it.

on the main unit are pressed.

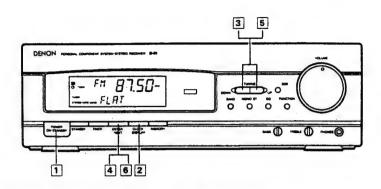
CD.

Auto search reverse button (144)

Auto search forward button (DH)

of the desired track.

Use these to search for the beginning

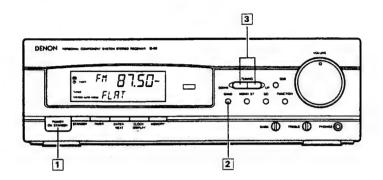


Example: Setting the time to 7:30 (The time is displayed in the 24-hour mode.)

1	Press the POWER ON/ STANDBY button to turn the power on.	POWER ON/STANDBY	
2	Press the CLOCK/DISPLAY button, and hold it in for at lease 3 seconds.	CLOCK/ DISPLAY	<u> </u>
3	Use the UP and DOWN buttons to set the hours.	DOWN TUNING UP	Ä:00
4	Press the ENTER/NEXT button.	ENTER/ NEXT	٦:ێڽٚ
5	Use the UP and DOWN buttons to set the minutes.	DOWN TUNING	า: <u>รั</u> ตั
6	Press the ENTER/NEXT button at the sound of a time service's chime. The time display stops flashing, and the clock starts counting the time.	ENTER/ NEXT	7:30

→ D LISTENING TO RADIO BROADCASTS

TUNING



(Example: Tuning to FM 102.50 MHz)

1	Set the VOLUME control to the "MIN" position, then press the POWER ON/ STANDBY button to turn the power on.	POWER CN: STANDBY	
2	Select the FM band with the BAND button.	BAND	FM 87.50 MHz
3	Use the UP and DOWN buttons to tune to 102.50 MHz.	DOWN TUNING UP	FM 102.50 Mms. AUTO MONO FLRT

FM stereo reception

- Press the MONO/ST button to turn the "AUTO MONO" indicator on. When an FM stereo broadcast is received, the "STEREO" indicator lights and the broadcast is received in stereo.
- When the MONO/ST button is pressed and the "MONO" indicator is turned on, the "STEREO" indicator turns off and the broadcast is received in monaural.

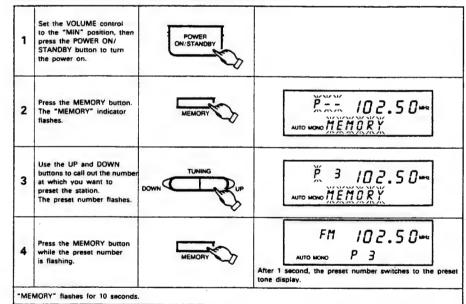
Note:

Use the same operation to receive AM (MW or LW) stations.

DENON THE POST OF THE POST OF

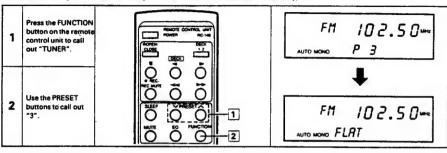
Presetting AM and FM stations

Example: Presetting FM 102.50 MHz (currently tuned in) to preset button 3



Notes on Presetting

- . When an FM station is preset, the auto or monaural mode is also set, so check the display before presetting the station.
- If a station is preset at a button at which another station has previously been preset, the previous station is cleared and the new station is preset.
- The preset memory is not cleared immediately if the power cord is unplugged, but will be cleared if the cord is left unplugged over a long period of time. If this happens, preset the stations again. The memory is backed up for 24 hours.



- . Load the disc with the disc holder open.
- Press the OPEN/CLOSE button (♠) once to open the disc tray, once again to close it.
- . Set the disc securely in the tray guide at the center of the To play 8cm discs, place the disc in the sunken part at the
- center of the disc holder.
- . Load discs with the labelled side facing up, being careful not to touch the disc surface.
- The disc tray can also be closed by pressing the PLAY (▶)
- In this case, playback automatically starts from the first track on the disc (or if tracks are programmed, the first programmed track).
- When the disc holder is closed, the disc turns automatically for several seconds, and the number of tracks and total playing time appear on the display.

Handling the Disc Tray

Do not turn off the power or push or pull the disc tray when it is moving, as this

If the cord of a set of headphones, etc., gets caught in the disc tray when it is closed, press the OPEN/CLOSE button (A) again.

· Never set objects other than CDs in the disc tray, as this can cause damage.



8 PLAYING CDs

Compact Discs

Discs which can be played



Only discs with this mark can be

· For CDVs, only the audio part is played (the video part is not played).

Disc	Remarks			
CD				
CDV	Only the audio part is played.			
CD single (8 cm)				

Loading Discs

■ When removing the disc from its case:

As shown in the diagram, grasp the disc along the edges, gentlypress down on the hole in the middle with a finger, and lift the disc. It should come out easily.

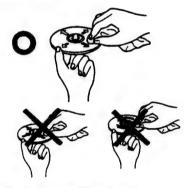


When setting the disc in the disc tray:

Always set the disc with the labelled side facing up. (Compact discs can only be played on one side.) For 8 cm CDs, set the disc in the sunken part in the middle of the tray.



Cleaning Discs



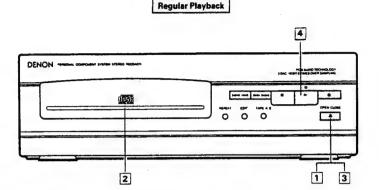
Never use the following to clean discs:

- · Solvents such as benzene or alcohol
- · Cleaners containing abrasives
- · Sprays or cleaner for records
- Anti-static products

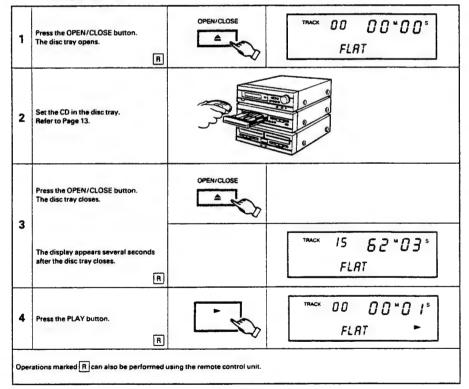
Dust, fingerprints, or spittle on the disc can cause noise or skipping.

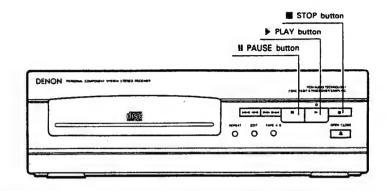
If the disc is dirty or if the player does not work properly, clean the disc as follows:

- · Hold the disc as shown in the diagram, with the signal surface facing up (the labelled side facing down).
- . Using a soft cloth, wipe the disc gently from the inside towards the edges in straight lines (as shown by the
- . Do not wipe from the edges towards the center or around the disc as you would wipe records.
- . Do not use hard cloths or rub the disc, since this can scratch the signal surface.

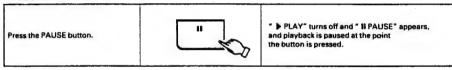


Example: Playing a CD with 15 tracks and a total playing time of 62 minutes 03 seconds, starting from track 1

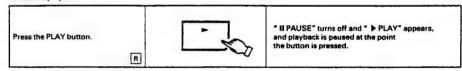




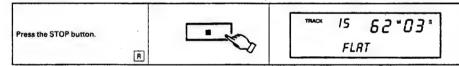
To stop playback temporarily:



To resume playback:

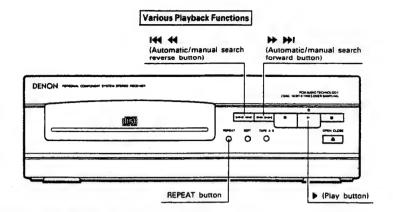


To stop playback:



NOTE:

- "00" is displayed on the track number section of the display for several seconds after the disc is set, while the data on the number of tracks, playing time, etc., is being read from the innermost section of the disc. After this, the number of tracks and total playing time appear.
- If no disc is loaded, if the disc is upside-down, or if the data on the innermost part of the disc cannot be read properly due to scratches or dirt.



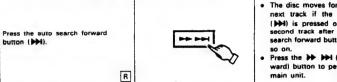
Repeat Playback - Playing All Tracks Repeatedly

1	Press the REPEAT button twice.	REPEAT	REPEAT ALL is displayed. • After the last track is played, playback starts over from the first track.
2	Press the Play button (>) to start playback.		 The all-track repeat mode can also be set by pressing the REPEAT button twice during pleyback. The program repeat mode is set if the REPEAT button is pressed during programmed playback.

A-B Repeat - Repeating a Certain Section

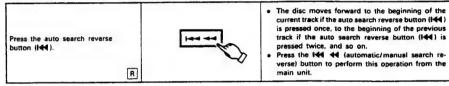
A-0 I	Repeat - Repeating a Certain S	ection		_
1	Press the REPEAT button during playback.	REPEAT O	REPEAT TRACK is displayed. If nothing else is done, that track is played repeatedly.	
2	Press the REPEAT button during playback or before starting playback.	REPEAT	REPEAT ALL is displayed. If nothing else is done, all tracks are played repeatedly.	
3	Press the REPEAT button during playback.	REPEAT	REPEAT A. is displayed. If nothing else is done, that track is played repeatedly.	This section is
4	Press the REPEAT button during playback.	REPEAT	REPEAT A—8 is displayed. The A-B section is played repeatedly.	played repeatedly.
5	Normal playback resumes if the RE	EPEAT button is pre	essed again.	1

Quick Search - Moving to the Next Track During Playback



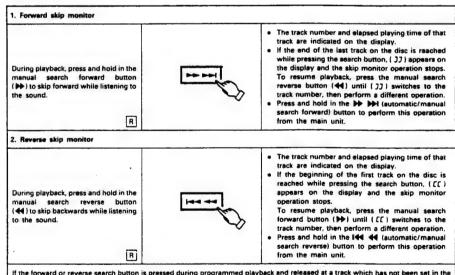
- The disc moves forward to the beginning of the next track if the auto search forward button ()>>10 is pressed once, to the beginning of the second track after the current track if the auto search forward button ()>>10 is pressed twice, and so on.
- Press the >> >> (automatic/manual search forward) button to perform this operation from the main unit.

Quick Search - Moving Back to the Beginning of the Current Track During Playback



Skip Monitor - Searching for Tracks While Listening to the Sound

- Use this function to skip through while listening to the sound. This functions comes in handy for example when searching for a certain section in a long track.
- After finding the desired position with the skip monitor function, simply release the search button to resume normal playback from that point



If the forward or reverse search button is pressed during programmed playback and released at a track which has not been set in the program, playback of the next programmed track begins once that track has been played to the end.

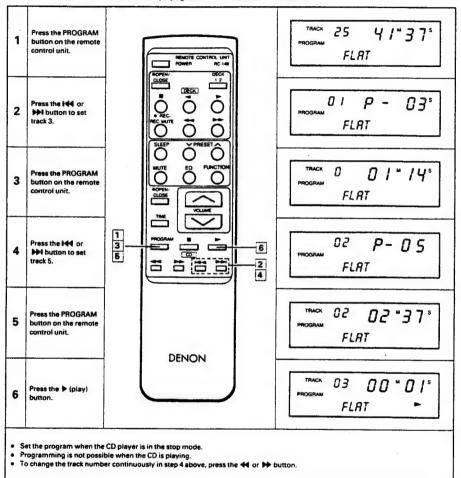
GENERAL

SECTION-1

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Use this function to set certain tracks to play in any order you want.

Example: Programming track 3 to play first, track 5 to play second CD with 25 tracks and a total playing time of 41 minutes, 37 seconds



- NOTES
- . The numbers of the programmed tracks turn off once the tracks are played.
- The time display will read "-- M -- S" if a track with a number of 31 or greater is set in the program.
- . With this set, up to 20 tracks with numbers between 1 to 99 can be set in the program.
- . If you attempt to set a track number greater than the number of tracks on the disc, that track number will not be displayed when the button is pressed.
- · Programming is also possible while the disc tray is open. In this case, track numbers greater than the number of tracks on the disc can be programmed, but these are ignored when the disc is played.
- . No sound is produced for 4 seconds between tracks. This is so that 4-second blanks are created between tracks when programmed tracks are recorded on tapes.

- . The entire program is cleared when the disc tray is opened or closed (by pressing the d button).
- If you make a mistake when setting the program, either press the OPEN/CLOSE key or the STOP key twice and start over.
- Operations possible during programmed playback The quick search, pause and skip monitor functions can be used during programmed playback. For the quick search function, to move to the beginning of the previous track, press the I button once, then once again while the time display reads " DD M DD S".

To move to the beginning of the following track, press the button once, regardless of the time display.

Cassette Tapes

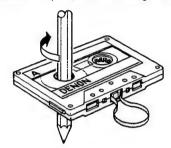
Cautions on Handling

• C-120 cassette tapes

Avoid using 120-minute cassette tapes, as they have extremely thin tape which tends to get caught on the capstans or pinch rollers.

· Tape slack

If the tape is slack, it may get tangled or be damaged. Take up slack with a pencil, etc., before loading the cassette.



■ Protecting Cassette Tapes From Being Erased Accidentally

- Cassette tapes are equipped with accidental erasure prevention tabs. To protect recorded tapes from being erased accidentally, use a screwdriver, etc., and break these tabs off.
- To record on a cassette tape whose accidental erasure prevention tabs have been broken off, place a piece of cellophane tape over the hole.



E Cautions on Storing

- · Avoid storing in the following places:
- · Hot, humid places
- Dusty places
- · Places exposed to direct sunlight
- · Near magnetic forces (TVs, speakers, etc.)
- Store the cassette tape in a case equipped with stoppers to keep the tape from coming slack.

Using the Tape Counter

- Reset the counter to DDDD by pressing the COUNTER RESET button.
- The counter indicates the position of the tape for the deck indicated by the DECK 1 and DECK 2 indicators.
- If the playback mode is set directly after rewinding the tape in the recording or playback mode, the indication on the tape counter may differ slightly from the indication when recording or playback was actually started. To avoid this, set the deck to the stop mode first before setting the playback mode after rewinding the tape.

Auto Tape Selector Mechanism

This deck is equipped with an auto tape selector mechanism which uses the detection holes in the cassette halves to automatically set the recording bias and equalization best suited for that type of tape.

- . Do not use ferrichrome tapes.
- Use metal tapes equipped with detection holes.



Detection holes

Chrome tape

NOTES

- Set the cassette tape with the exposed side facing the inside of the set. Setting the cassette tape in the other direction can damage the set.
- Do not press the OPEN/CLOSE button during playback or recording.
 Always press the stop button before pressing the OPEN/CLOSE button.

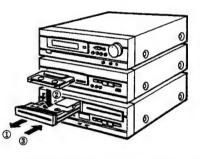
Common for Deck 1 and Deck 2

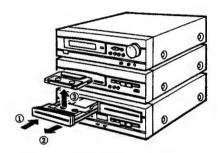
Loading

- ① Press the OPEN/CLOSE button (♠) to open the cassette
- ② Set the tape in the cassette tray with the open side (on which tape is exposed) facing away from you.
- 3 Press the OPEN/CLOSE button again to close the tray.

Intending

- ① Press the STOP button (E). (Deck 1 or Deck 2)
- ② Press the OPEN/CLOSE (▲) button to open the cassette
- 3 Remove the cassette tape.





Check the following before recording or playing cassette tapes:

- 1. Is the head dirty? ______ The sound quality will be poor if the head is dirty. Refer to Page 25.

Recording is not possible if the accidental erasure prevention tabs broken off. Refer to Page 17.

PLAYING CASSETTE TAPES (Single Side Playback, Double Side Playback and Continuous Playback)

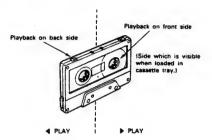
GENERAL SECTION-1

Ö

This deck is equipped with an auto reverse mechanism, so cassette tapes can be played and recorded on both sides or played continuously without having to turn them over.

■ Direction of tape travel

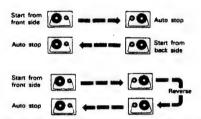
This deck has two play buttons, one for the forward direction (front side) and another for the reverse direction (back side). The side being played can be changed during playback by pressing the opposite play button.



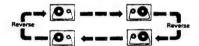
Reverse mode

Set the reverse mode switch (REV. MODE) as follows:

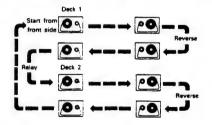
- Single-side recording/playback mode (____)
 In this position, only the front side or the back side of the capette tape is played or recorded. (The tape stops automatically when the end of that side is reached.)
- Deble-side (reverse) recording/playback mode ()
 In this position, when the end of the front side is reached, recording or playback automatically switches to the back side and continues from there. (The tape stops automatically when the end of the back side is reached.)
- Continuous mode () }
 Playback continues until the STOP button is pressed, but stops automatically after both sides have been played five times.
- Relay playback mode
 When tapes are loaded in both decks
 Playback continues from deck 1 onto deck 2, as shown on
 the diagram at the right.



 If you start playing or recording from the back side, the tape will stop automatically at the end of the back side.

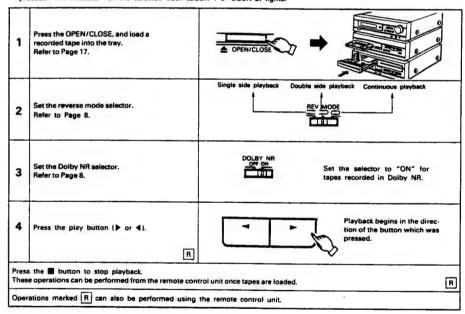


 The reverse recording/playback mode () is set automatically during recording.



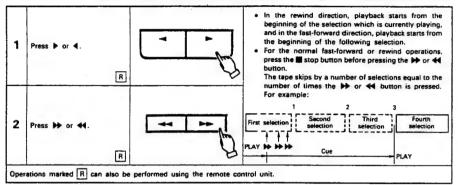
DENON PRODUCT CONTRIBUTION COLDETT TART SEC. DENON PRODUCT CONTRIBU

- · For both Deck 1 and Deck 2
- When operating from the remote control unit, operation switches between Deck 1 and Deck 2 each time the DECK 1/2 button is
 pressed. The indicator for the selected deck (DECK 1 or DECK 2) lights.



Using the MS (Music Search) Function

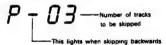
- Use this function to move to the beginning of the following selection or return to the beginning of the current selection (For both Deck 1 and Deck 2)
- . There must be blank spaces of at least 4 seconds between the selections on the tape for the search function to work.



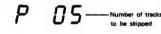
Display During the Music Search Operation

During the music search operation, the number of selections being skipped is indicated on the tape counter, and this number decreases each time a blank section is detected (for example, $3 \rightarrow 2 \rightarrow 1$).

· When skipping back to a previous selection



· When skipping ahead to a following selection



TONVENIENT FUNCTIONS

Preset Equalizer Settings

This set includes preset equalizer settings which can be selected according to the type of music or application. There are six preset equalizer modes which can be called out easily either on the main unit or from the remote control unit.

In addition, these modes are indicated on the receiver's display.

DISCO:	Use this mode for strongly modulated sound.	SDB: Use this mode to create a more powerful bass
VOCAL:	Use this mode to create glossy vocals.	sound.
ROCK:	Use this mode for powerful sound.	FLAT: Use this mode for straight, pure sound.
RGM-ties	this made for easy listening	

12 USING THE TIMER

Setting the Timer

Notes on Setting the Timer

- · Always set the current time beforehand.
- Be sure to preset radio stations before setting the timer.
 (Refer to "Presetting AM and FM Stations" on Page 12.)
- . Turn the standby switch off when not using the timer.

Types of Timers:

TIMER:

This can be used to turn the power on

and off at the same time each day.

("Good morning music")

SLEEP TIMER: This can be used to set the power to turn off in intervals of 10 minutes between 60

and 10 minutes, using the remote con-

trol unit.

("Good night music")

Power Failure

If there should be a power failure or if the power cord should be unplugged from the power outlet, "DD:DD" or the time at which the power failed flashes on the time display. If this happens, reset the current time.

(Reset the current time and timer settings.)

Checking the Timer Settings

To check the timer settings, turn the receiver's power on then press the timer button. Next, press the ENTER/NEXT button repeatedly to display the following: Timer start mode → reception band, preset channel number and timer on time → timer off time.

Press the ENTER/NEXT button once again to return to the frequency display.

If the timer on or off times are not set, "DD:DD" flashes and the display does not switch to the next step.

Changing the Timer Settings

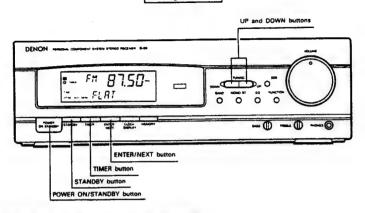
When timer setting operations are repeated, the old timer settings are cleared and the new ones are set.

Clearing the Timer Settings

Press the TIMER key once, then press it again while "FU" is displayed to clear the timer settings.

Cautions on Setting the Timer

The timer settings are given priority, so when the timer on time is reached, the function switches to that function set for the timer.



Example: Setting the timer to turn on at 12:35 and off at 12:56 Tuner (FM 102.50 MHz set at preset number "3")

1	Press the POWER ON/ STANDBY button to turn the power on.	POWER ON/STANDBY	
2	Press the TIMER button.	TIMER	TIMER FUN [
3	Press the UP and DOWN buttons to display "TUNER:".	DOWN UP	TIMER TUNER
4	Press the ENTER/NEXT buttons.	ENTER/ NEXT	TIMER FM 102.50 MHz
5	Press the UP and DOWN buttons to set the preset number.	DOWN TUNING UP	TIMER F.M 102.50 MHz
6	Press the ENTER/NEXT buttons.	ENTER NEXT	TIMER

			
7	Use the UP and DOWN buttons to set hour at which the timer is to turn on.	DOWN TUNING UP	TIMER IZ:00 Mars
8	Press the ENTER/NEXT button.	ENTER NEXT	TIMER 12: ÖÖ ÖMARIZ AUTO MONO ON
9	Use the UP and DOWN buttons to set minutes at which the timer is to turn on.	DOWN TUNING UP	12: ¾ 5 mms AUTO MONO 0 N
10	Press the ENTER/NEXT button.	ENTER. NEXT	TIMER 0:00 herz AUTO MONO 0 F F
11	Use the UP and DOWN buttons to set hour at which the timer is to turn on.	DOWN TUNING UP	TIMER IZ: 00 Mex
12	Press the ENTER/NEXT button.	ENTER: NEXT	TIMER 12: ÜÜMHE AUTO MONO 0 F F
13	Use the UP and DOWN buttons to set minutes at which the timer is to turn on.	DOWN TUNING UP	ТМЕР 12:5 5 мнх АЛТО МОНО 0 F F
14	Press the ENTER/NEXT button.	ENTER NEXT	TIMER FM 102.50 WHIZ
15	Press the STANDBY button.	STANOBY	O TIMER FM 102.50 WHILL AUTO MONO FLRT
16	Press the POWER ON/ STANDBY button.	POWER ON STANDBY	© TIMER 10.05

Press the POWER ON/STANDBY button.

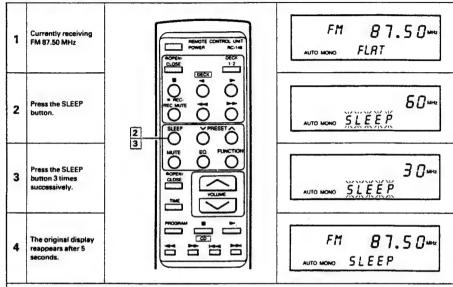
When the STANDBY button is pressed and the " "mark is lit, the timer will function at the same times each day. To turn the timer off, press the STANDBY button to turn the " "mark off.

Example: Waking up to the music of a compact disc

1	Press the receiver's POWER ON/STANDBY button to turn the power on.	POWER ON/STANDBY	
2	Press the CD player's OPEN/CLOSE button to open the disc tray.	OPEN/CLOSE	
3	Load the CD in the disc tray. Refer to Page 13.		
4	Press the CD player's OPEN/CLOSE button again to close the disc tray.	OPEN/CLOSE	
5	Press the receiver's TIMER buttons.	TIMER	TIMER FUN [
6	Use the receiver's UP and DOWN buttons to display "CD".	DOWN TUNING UP	TIMER []
7	Follow steps 6 to 16 under "Se	tting the Timer" on Page 20.	
		erformed using the remote control unit.	

Example: Waking up to the music of a cassette tape

1	Press the receiver's POWER ON/STANDBY button to turn the power on.	POWER ON/STANDBY			
2	Press the cassette deck's OPEN/CLOSE button to open the tray.	● OPEN/CLOSÉ			
3	Load the cassette tape in the tray. Refer to Page 17.				
4	Press the cassette deck's OPEN/CLOSE button again to close the tray.	▲ OPEN/CLOSE			
5	Press the receiver's TIMER buttons.	TIMER	TRACER	FUN	ζ
6	Use the receiver's UP and DOWN buttons to display "TAPE".	DOWN TUNING UP	TIMER	TAP	Ε
7	Follow steps 6 to 16 under "Se	tting the Timer" on Page 20.	.		
	Check that the tape direction and (Refer to "Using the Auto Rever	rection indicated by the tape direction is d reverse mode settings are as desired se Function* on Page 18.) s played in direction indicated for Deck	•		



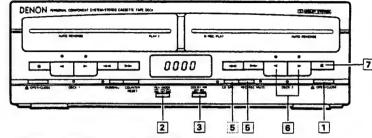
To cancel the sleep timer:

Press the SLEEP button repeatedly until the display reads "0". The power turns off. Now press the POWER switch to turn the power back on.

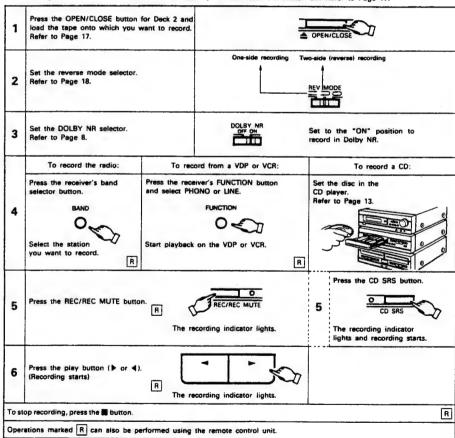
NOTES

- If the sleep timer is set to turn the power off before the timer off time, the sleep timer is given priority, and the power turns
 off when the sleep timer time is reached.
- Do not press the TIMER STANDBY button after the power has been turned on with the timer. If this is done, the timer will not function properly.
- If the same time is set for the on time and off time, the power will not turn on even if the standby indicator is on.
- If the timer is sat for an AM or FM station and the timer on time is reached while listening to another station, the station switches to the station which was set with the timer.

13 RECORDING CASSETTE TAPES

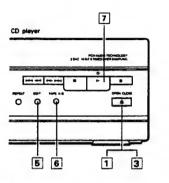


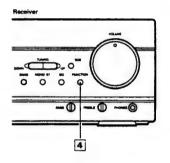
Check that the accidental erasure prevention tabs on the tape onto which you want to record are intact.
 Recording is not possible if the accidental erasure prevention tabs are broken off. Refer to Page 17.



NOTES

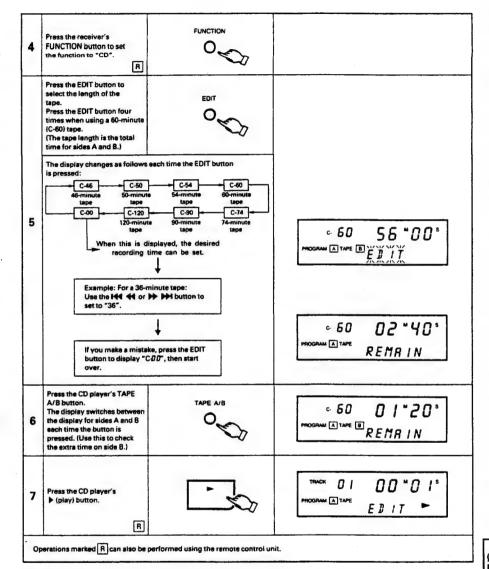
- For discs containing 21 or more tracks, editing is not possible for track numbers 21 and up. (Editing is only possible for up to 20 tracks.)
- Editing is cancelled if the CD player's stop button () or OPEN/CLOSE button () is pressed.
- Set the deck's reverse mode selector to the position.
- Set the cassette tape onto which you want to record in Deck 2 with side A on the top when performing the editing
 operations. The beginning of the tape is searched for automatically before recording starts.
- Note that in some cases it is not possible to record all the tracks on the CD onto the tape, even if the tape is longer than
 the total playing time of the CD, due to the combination of the tracks being recorded onto sides A and B.





Automatic Edited Recording - Recording the CD's Tracks in Order

1	Press the CD player's OPEN/CLOSE button to open the disc tray.	OPEN/CLOSE	TRACK 00 00 "00" FLRT
2	Load the CD in the disc tray. Refer to Page 13.		
3	Press the CD player's OPEN/CLOSE button. The disc tray closes.	OPEN/CLOSE	
	The display appears several seconds after the disc tray closes.		TRACK 18 55 * 00° FLRT



MOTE

Only the CD player's STOP and OPEN/CLOSE keys and the cassette deck's STOP key will function during edited recording.

Programmed Edited Recording - Recording Certain Tracks in Any Order

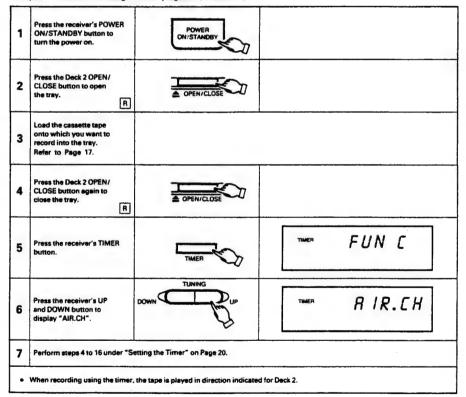
	Follow the instructions under "Programmed Playback" on Page 16 to program the tracks.
2	Perform steps 5 to 7 under "Automatic Edited Recording" on Page 23.

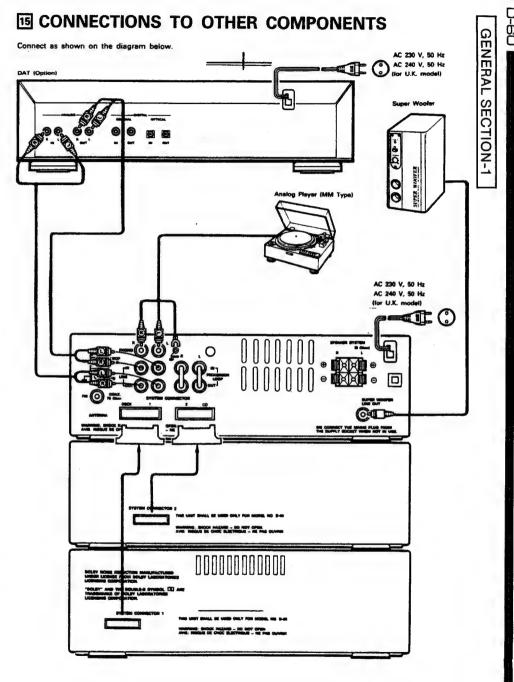
CAUTIONS

- When performing edited recording onto a tape which already contains a recording and which is longer than the set time,
 the previously recorded section after the newly recorded part of side B is not erased, so erase the tape before starting.
- When the editing function is used, a blank section of 4 seconds is created between all of the selections on the tape.
 Because of this, the times of the actual blank sections between the tracks on the disc and the blank sections between the selections on the tape are different, so the displayed time is slightly different from the actual remaining time on the tape.

14 UNATTENDED RECORDING

Example: Unattended recording of radio programs ("air check")





16 TROUBLESHOOTING

1. Check that connections are proper.

2. Check that you are operating the system according to the instructions in the manual.

Check the following points if the system does not seem to be working properly.

If the problem is not solved after checking these points carefully, the system may be malfunctioning. Turn the power off and contact your store of purchase or your nearest DENON service center or office.

	Symptom	Cause	Measures	See Page
	Power does not turn on when POWER button pressed.	Power cord not plugged into outlet.	Plug cord into outlet properly.	5
Common	No sound produced from speakers.	VOLUME control set to minimum. Headphones are connected. Speaker cords not connected to speaker terminals.	Turn VOLUME control clockwise (^). Disconnect headphones. Connect speaker cords properly.	7 7 5
O	Trebles not produced or stereo effect not clear.	Speaker's polarities (⊕ and ⊕) not matched.	Connect speaker cords properly.	5
	Source other than the one desired is heard.	Function selector buttons not set properly.	Set to desired function.	7
	Recording not performed when REC/REC MUTE button pressed.	No cassette tape loaded. Cassette tape's tabs broken off.	Load tape. Apply cellophane tape over holes.	17 17
Deck	Sound is interrupted during playback or recording, or treble sound low.	Heads dirty. Tape stretched.	Clean. Replace tape.	25
	Wow is heavy during play- back or recording.	Capstans or pinch rollers dirty.	Clean.	25
_	Hissing noise heard during FM reception.	Antenna not pointed in proper direction. Signals weak.	Change direction of antenna. Install outdoor antenna.	6 5
Receive	Hissing or scratchy noise heard during AM reception.	Noise from TV or interference from other stations.	Turn TV off. Set system in different direction. Install outdoor antenna.	- - 6
CD Player Receiver Deck	Humming noise heard dur- ing AM reception.	Signals over power cord modulated by power source frequency.	Plug in cord in opposite direction. Install outdoor antenna.	5
	Disc loaded but number of tracks not displayed.	Disc loaded upside-down. Disc dirty. Non-standard disc loaded.	Reload disc. Clean disc. Replace with standard disc.	13 13 13
CD Player	Operation not performed when buttons pressed, or playback stops in middle of track.	Disc loaded upside-down. Foreign object in disc holder. Disc dirty. Disc scratched.	Reload disc. Remove disc and remove foreign object. Clean disc. Replace with non-scratched disc.	13 13 13
	Sound skips.	Dust, fingerprints, or spittle on disc. Disc scratched. Player set in shaky, unstable place.	Clean disc. Replace with non-scratched disc. Set player in stable place.	13

Normal operation may not be possible if there is dirt or other substances on the surface of the internal objective lens or sensor.

These parts must be cleaned periodically depending on the place of installation.

For details, contact your store of purchase.

Avoid using ultrasonic humidifiers nearby.

If ultrasonic humidifiers are used nearby, the calcium, etc., included in the water may be scattered into the air, causing white dust to accumulate on the surface of the objective lens or sensor, resulting in improper opera-

Condensation Water droplets (or condensation) may form on the optical lens or disc in the following cases:

- . Just after a heater is turned on in the room.
- . When the set is placed in a steamy or humid room.
- When the set is moved abruptly from a cold place to a

If Condensation Occurs

The signals on the disc cannot be read properly and the CD player may not operate properly.

To get rid of the condensation, turn the power on and let the set sit for about one hour. Operation should be normal after this

This system consists of precision components using microprocessors. Avoid using it in places where there is much external noise. If used is such places, the system may not operate properly, but this is not a problem with the system. If the system does not operate properly, try performing the desired operation again.

177 IMPORTANT INFORMATION

· Cleaning the Head

After the cassette deck is used for a while, powder from tapes and dirt get on the head, decreasing the sound quality.

OTE:

Some cleaning sets sold in stores have a polishing effect and can damage the head.

. Demagnetizing the Head

The head becomes magnetized after the deck is used over a long period of time or if the head is exposed to magnetic forces. This results in noise and reduced treble.

If the head is magnetized, use a cassette tape head demagnetizer (eraser), available in stores, and demagnetize it.

 For details, read the demagnetizer's operating instructions

18 SPECIFICATIONS

Receiver Section (UDRA-60)

Power Amplifier Section

30 W Per channel, min. RMS, at 8 ohms from 40 Hz to 20 kHz with more than 0.5% total harmonic distortion.

80 Hz + 8 dB

1.5 µV (14.8 dBf)

40 dB (1 kHz)

18 µV

52 dB

35 uV

52 dB

PHONO: 2.5 mV/47 kohms, LINE: 150 mV

87.50 MHz ~ 108.00 MHz (50 kHz step)

Mono: 78 dB Stereo: 75 dB

Mono: 0.1% Stereo: 0.3%

20 Hz - 15 kHz + 0.5 dB, -2 dB

522 kHz ~ 1611 kHz (9 kHz step)

153 kHz ~ 279 kHz (1 kHz step)

BASS: 100 Hz ± 8 dB TREBLE: 10 kHz ±8 dB

Total harmonic distortion: 0.1% at 1 kHz

· Preamplifier Section Input sensitivity / imped

Super Dynamic Bess:

Tone Control: FM Section

Tuning frequency range: Signal to noise ratio (A-weighted) Total harmonic distortion:

Stereo separation: MW Section

Tuning frequency range: Usable sensitivity:

Signal to noise ratio a IW Section

Tuning frequency range:

Signal to noise ratio

AC 230 V. 50 Hz Power supply: Power consum

270 (W) × 86.5 (H) × 248 (D) mm (10-5/8" × 3-13/32" × 9-49/64")

E CD Player Section (UCD-60) Audio Section

Sampling frequency 44.1 kHz 5 Hz ~ 20 kHz Frequency response Dynamic range: 90 dB Signal to noise ratio: 90 dB 0.05% (1 kHz) **Total harmonic distorti**

Output filter:

270 (W) × 86.5 (H) × 235 (D) mm (10-5/8" × 3-13/32" × 9-1/4") Weight: 1.9 kg (4 lbs 3 oz)

Horizontal 4-track 2-channel Auto Reverse Double Cassette Deck

Ⅲ Cassette Deck Section (UDR-60)

. Type: • Head

Record & playback: Hard permalloy (P head & R/P head)

Erase: Double gap ferrite head x 1

Tape speed: 4.75 cm/S Usable tapes: Normal, chrome and metal tapes

Audio Section Frequency response

50 Hz ~ 16 kHz ± 3 dB (metal tape) Signal to noise ratio: 60 dB (Dolby B NR) 270 (W) × 86.5 (H) × 235 (D) mm (10-5/8" × 3-13/32" × 9-1/4")

Weight: 3 kg (6 lbs 10 oz)

E Speaker Section (USC-60)

· Type: 2-way Speaker System input impedance: 8 ohms Frequency response 50 Hz ~ 20 kHz Max input power: 50 W

Sound pressure level: 89 dB (1 m - 1W) 172 (W) × 257 (H) × 235 (D) mm (6-25/32" × 10-1/8" × 9-1/4")

Weight: 4 kg (8 lbs 13 oz)

Remote Control Unit (RC-148)

Type: Infrared pulse Number of buttons:

Batterise: R6P/AA type (two batteries)

Max. external dimensions: 47 (W) × 173 (H) × 14 (D) mm (1-27/32" × 6-13/16" × 35/64")

100 g (approx. 3.5 oz) (including batteries)

* Maximum dimensions include controls, jacks, and covers. (W) = width, (H) = height, (D) = depth

For improvement purposes, specifications and functions are subject to change without advanced notice.

18 TECHNISCHE DATEN

Empfänger-Abteilung (UDRA-60)

Leistungsverstärker-Abteilung

Geschätzte Ausgangsleistung: 30 W pro Kanal, min. RMS, bei 8 ohm von 40 Hz bis 20 kHz und mehr als 0,5%

totale harmonische Verzerrung.

Totale harmonische Verzerrung: Vorverstärker-Abteilung

Eingangsempfindlichkeit/Impedanz: PHONO: 2,5 mV/47 kohm, LINE: 150 mV

Hochdynamischer Baß: 80 Hz + 8 dB

Tonkontrolle: Baß (BASS): 100 Hz ± 8 dB Höhen (TREBLE): 10 kHz ±8 dB • FM-Abteilung

0.1% bei 1 kHz

Empfangsfrequenzbereich: 87,50 MHz ~ 108,00 MHz (50 kHz Schritt) 1.5 uV (14.8 dBf)

Brauchbare Empfindlichkeit: Signal / Rausch-Verhältnis

(A-Belastung): Mono: 78 dB Stereo: 75 dB

Totale harmonische Verzerrung: Mono: 0,1% Stereo: 0,3% Frequenzgang: 20 Hz - 15 kHz + 0,5 dB, -2 dB Stereo-Trennung: 40 dB (1 kHz)

MW-Abteilung

Empfangsfrequenzbereich: 522 kHz ~ 1611 kHz (9 kHz Schritt)

Brauchbare Empfindlichkeit: 18 uV Signal / Rausch-Verhältnis: 52 dB

LW-Abteilung

Empfangsfrequenzbereich: 153 kHz ~ 279 kHz (1 kHz Schritt) Brauchbare Empfindlichkeit:

35 uV Signal/Rausch-Verhältnis: 52 dB

Stromversorgung: 230 V Wechselstrom, 50 Hz Stromverbrauch:

 Abmessungen: 270 (B) × 86,5 (H) × 248 (T) mm Gewicht: 4 kg

CD-Spieler-Abteilung (UCD-60)

Audio-Abteilung

Sampling Frequenz: 44.1 kHz Frequenzgang: 5 Hz ~ 20 kHz Dynamischer Bereich: 90 dB Signal/Rausch-Verhältnis: 90 dB Totale harmonische Verzerrung: 0.05% (1 kHz) Ausgangsfilter: Digital

Abmessungen:

270 (B) × 86,5 (H) × 235 (T) mm

Gewicht:

■ Cassettendeck-Abteilung (UDR-60)

· Typ:

Horizontales doppeltes Cassettendeck, 4-Spur, 2-Kanal,

automatische Richtungsumschaltung

Konf

Aufnahme & Wiedergabe: Hartes Permalloy (Wiedergabekopf & Aufnahme-/Wiedergabekopf) Doppelspaltkopf x 1

Löschung: Bandgeschwindigkeit:

4,75 cm/S Bandarten: Normal, Chrom und Metalibänder

Audio-Abteilung

Frequenzgang: 50 Hz ~ 16 kHz ± 3 dB (Metaliband)

Signal/Rausch-Verhältnis: Abmessungen:

60 dB (Dolby B NR) 270 (B) × 86.5 (H) × 235 (T) mm

Gewicht:

Lautsprecher-Abteilung (USC-60)

2-Stück Lautsprechersystem Eingangsimpedanz: 8 ohm

Frequenzgang: 50 Hz ~ 20 kHz Maximale Eingangsleistung: 50 W

Klangdruckpegel: 89 dB (1 m • 1 W) Abmessungen: 172 (B) × 257 (H) × 235 (T) mm

Gewicht: 4 kg Fernbedienung (RC-148)

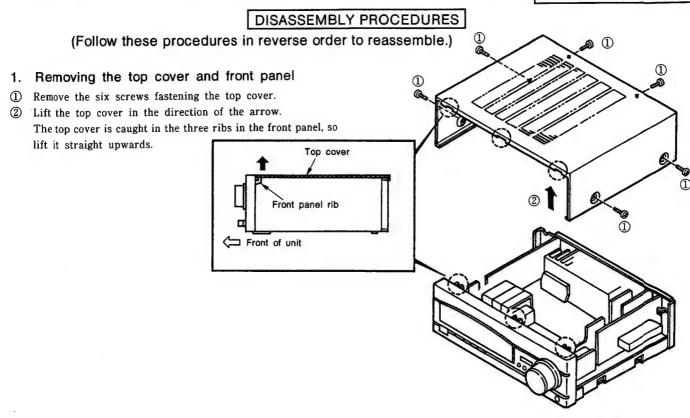
TVP: Infraroter Impuls

Anzahi Tasten:

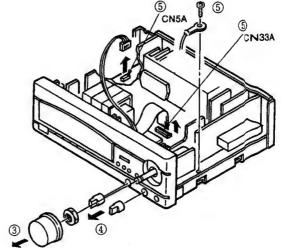
Tvp R6P/AA (zwei Batterien) Batterien: Maximale Außere Abmessungen: 47 (B) × 173 (H) × 14 (T) mm Gewicht: 100 g (einschließlich Batterien)

^{*} Max. Abmessungen einschließlich Regler, Buchsen und Abdeckungen. (B) = Breite, (H) = Höhe, (T) = Tiefe Anderungen der Außeren Aufmachung und technischen Daten zwecks Produktverbesserung sind möglich ohne Vorankündiging

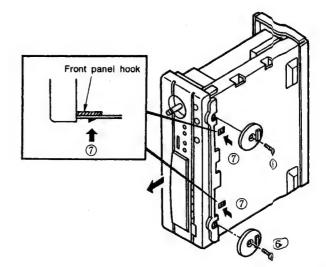
RECEIVER SECTION



- 3 Remove the main volume knob assembly in the direction of the arrow, and remove the nut fastening the volume knob.
- 4 Remove the two knobs.
- ⑤ Disconnect connectors CN33A and CN5A connecting the amplifier unit and display unit, and disconnect the ground terminal.



- Set the unit up as shown in the diagram, then remove the two screws fastening the foot assembly.
- Unlatch the hook of the front panel from the chassis and remove the front panel in the direction of the arrow.



RECEIVER SECTION

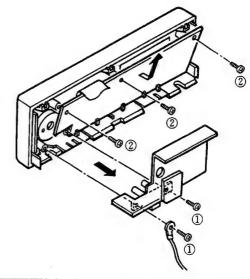
2. Removing the printed wiring boards

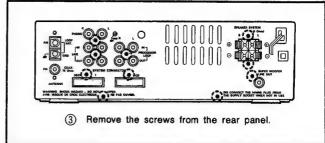
TONE UNIT IU-2410B

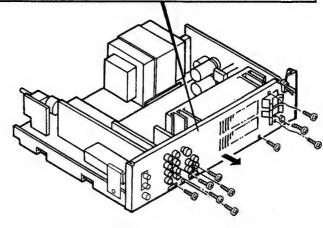
① Remove the two screws fastening the tone unit, then remove the printed wiring board in the direction of the arrow.

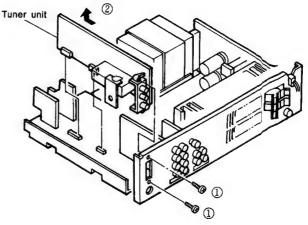
DISPLAY UNIT KU-9260B-2

- ② Remove the three screws fastening the display unit, then remove the printed wiring board in the direction of the arrow.
- * Before removing the main unit's circuit boards, remove the two screws fastening the rear panel, then slide the rear panel in the direction of the arrow.
- Before removing the main unit's circuit boards, remove the two screws fastening the rear panel, then slide the rear panel in the direction of the arrow.









TUNER UNIT KU-9258B-1

- ① Remove the two screws which attach the tuner.
- ② Disconnect the tuner unit from the connector connecting it, then remove the printed wiring board in the direction of the arrow.

EQ UNIT KU-9258B-2

① Disconnect the GRA-EQ unit from the connector connecting it, then remove the printed wiring board in the direction of the arrow.

MASTER VOLUME UNIT KU-9260B-4

② Disconnect the master volume unit from the connector connecting it, then remove the printed wiring board in the direction of the arrow.

INPUTUNIT IU-2410B-3

3 Disconnect the input unit from the connector connecting it, then remove the printed wiring board in the direction of the arrow.

PROCESSOR LOOP UNIT KU-9260B-6

Disconnect the processor loop unit from the connector connecting it, then remove the printed wiring board in the direction of the arrow.

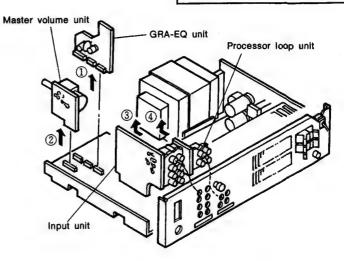
POWER UNIT KU-9260B-3

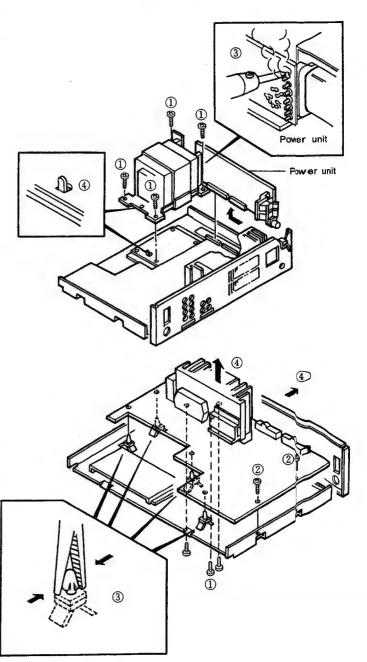
- ① Remove the four screws fastening the power transformer.
- ② Disconnect the power unit from the connector connecting it, then remove the printed wiring board in the direction of the arrow.
- 3 Remove the solder on the terminals connecting the power transformer and power unit.
- When reinstalling the transformer, line up the hooks in the transformer's bracket with the holes and install.

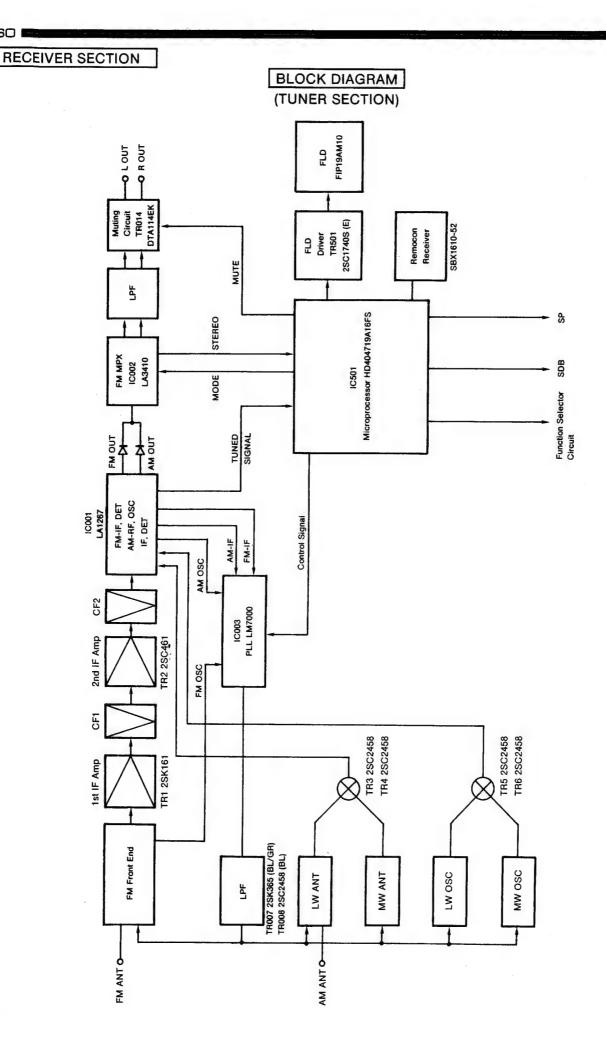
AMPLIFIER UNIT KU-9260B-1

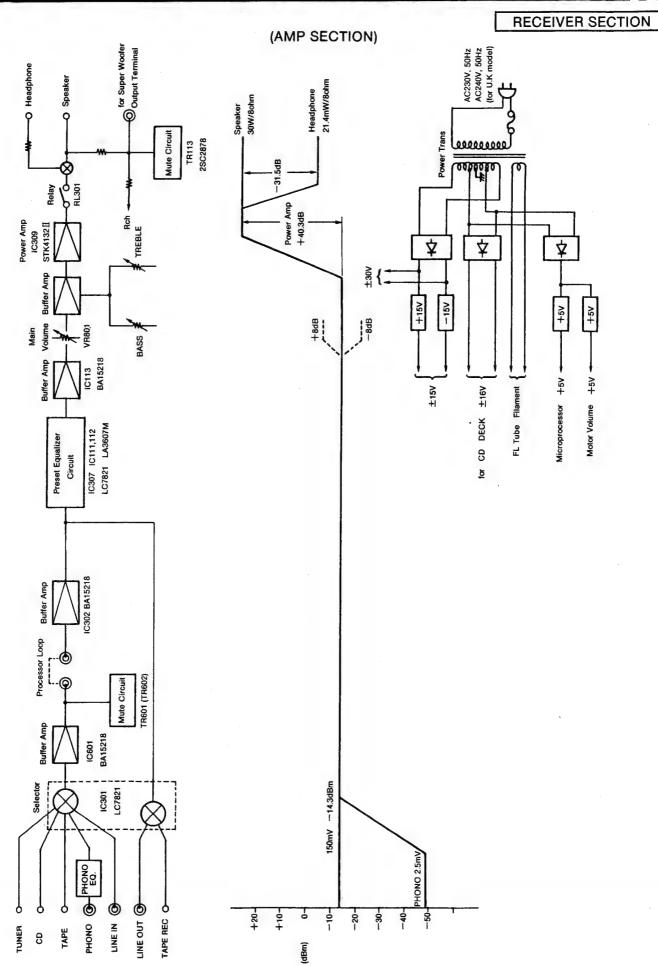
- ① Remove the three screws fastening the radiator and chassis.
- 2 Remove the two screws fastening the amplifier unit.
- 3 Unlatch the four PCB holders fastening the amplifier unit, using radio pliers, etc.
- Slide the rear panel to the back and remove the amplifier unit in the direction of the arrow.

RECEIVER SECTION





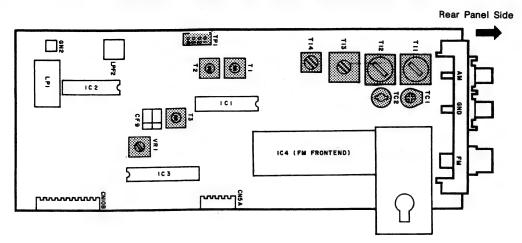




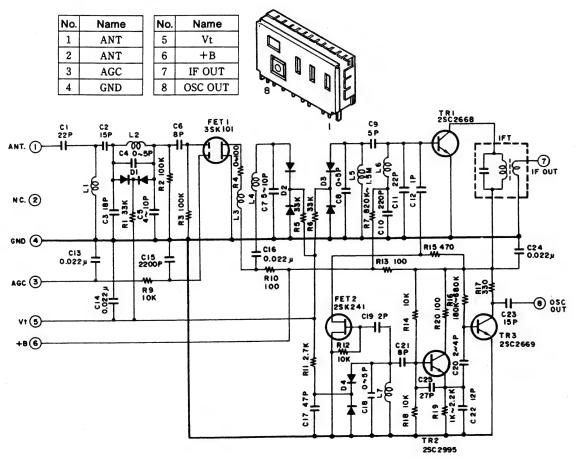
RECEIVER SECTION ADJUSTMENTS Loop Antenna 75 olims Dummy Antenna GND FM 60cm Test Loop Antenna FM SSG AM SSG IC4 (FM FRONTEND) FM Stereo Modulator Modulation frequency: 400 Hz Modulation Frequency: 1 kHz Modulation factor: 30% L + R: 90% Pilot: 10% 100% = 75 kHz Dev. CNSA 2 VRI 0 SIMPLEMENT 102 GN2 LPI Digital Voltmeter

RECEIVER SECTION

KU-9258B-1 TUNER UNIT ASS'Y (Component Side)



Front End Part number: 2160079005



1. FM adjustment (BAND SELECTOR button: FM, STEREO / MONO MUTE button: AUTO)

	•	•										
	Tuning poir	Tuning point Input			Output		Adjustment	Setting value	Notes			
Step	Adjustment item	(Channel setting)	Measuring instrument	Frequency	Input level	Modulation	Connection location	Measuring instrument	Connection location	location	Setting value	Notes
1	FM DC balance	98.00MHz	FM S.G.	98.00MHz	60dB μ	1kHz 75kHz DEV	FM antenna terminal	Digital voltmeter	⊕ TP-1 ① Pin ⊝ TP-1 ② Pin	T-1	$0 \pm 50 \text{mV}$	Perform with monaural modulation signal
2	Distortion	,	"	"	"	*	,	Distortion factor meter	Output terminal	T-2	Minimum distortion	,
3	3 Repeat Steps 1 and 2.											
4	AUTO STOP level	98.00MHz	FM S.G.	98.00MHz	22dB μ	1kHz 75kHz DEV	FM antenna terminal	Check for the lighting of TUNED	Output terminal	VR-1	Input level 22dB $\mu \pm 4$ dB	(Level at which TUNED lights up) Level at which the output is provided

2. MW adjustment (BAND SELECT button: MW)

1	IF	Clear frequency (without a broadcast)	AM IF sweep	_	Level at which AGC is not applied	-	AM antenna terminal	Oscilloscope	⊕ TP-1 ④ Pin ⊖ TP-1 ③ Pin	T-3	Waveform maximum and symmetry	
2	Band edge	522kHz		-	-	_	_	Digital voltmeter	⊕ TP-⑤ Pin ⊖ G TP-1 ③ Pin	T-14	1.2V	
		1611kHz	_							_	Approx. 8.05V	No place to adjust
3	Tracking	603kHz	AM S.G.	603kHz	Level at which AGC is not applied	400Hz 30%	Loop antenna	VTVM	Output terminal	T-12	Maximum output	
4	Tracking	1404kHz	"	1404kHz	,,	"	"	"	"	TC-2	Maximum output	·
5	Repeat Steps 2 to 4, and set the output to maximum.											

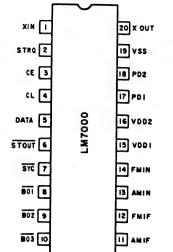
3. LW adjustment (BAND SELECT button: LW)

1	IF	Clear frequency (without a broadcast)	AM IF sweep	-	Level at which AGC is not applied	_	AM antenna terminal	Oscilloscope	⊕ TP-1 ④ Pin ⊖ TP-1 ③ Pin	T-3	Waveform maximum and symmetry	
2	Band edge	153kHz		-	_	_	-	Digital voltmeter	⊕ TP-⑤ Pin ⊝ G TP-1 ③ Pin	T-13	1.2V	
		279kHz								_	Approx. 7V	No place to adjust
3	Tracking	163kHz	AM S.G.	163kHz	Level at which AGC is not applied	400Hz 30%	Loop antenna	VTVM	Output terminal	T-11	Maximum output	
4	Tracking	270kHz	"	270kHz	*	"	"	"	"	TC-1	Maximum output	
5	Repeat Steps 2 to 4, and set the output to maximum.											

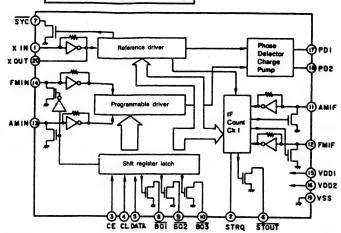
RECEIVER SECTION

● IC's

LM7000 (IC003)



SEMICONDUCTORS



Pin Description

: Clock (400 kHz) for the controller SYC

XIN, XOUT : X'tal oscillator (7.2 MHz) with built in feedback resistor

FM IN, AM IN : Local oscillator signal input

CE, CL, DATA : Data input

: Band data output. B01 can be set as the time base output (8 Hz). B01, B02, B03

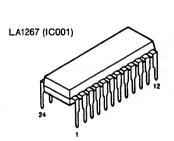
STRQ : IF counter request input

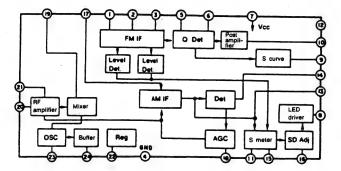
STOUT : Auto research stop signal output

VDD1, VDD2, VSS: Power supply (VDD2 is a back-up power supply)

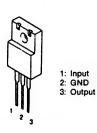
AMIF, FMIF : IF signal input PD1, PD2

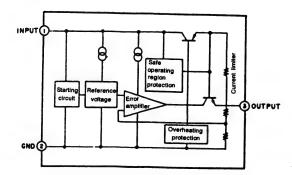
: Charge pump output



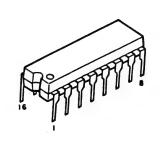


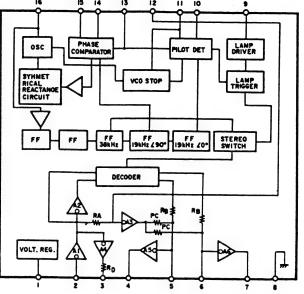
NJM78M06FA (S) (IC102) NJM7805FA (S) (IC103)



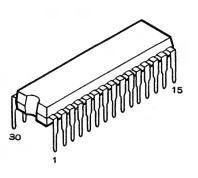


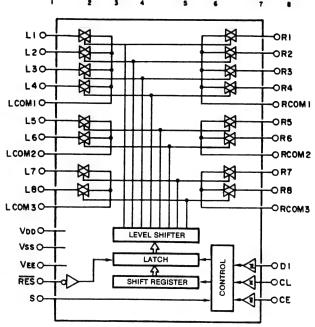
LA3410 (IC002)





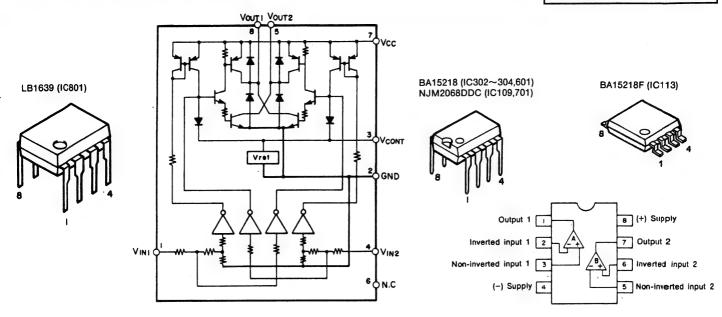
LC7821 (IC301, 307)

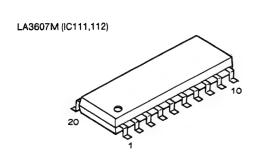


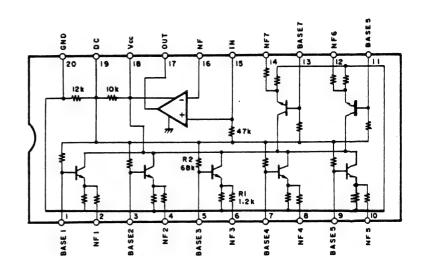


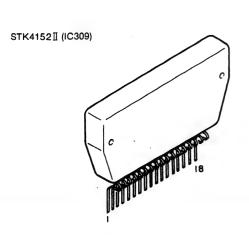
● Pin Functions

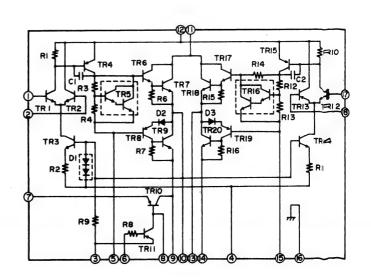
Pin name	I/O	Internal equivalence circuit		Pin functions						
V_{DD} , V_{SS} , V_{EE}			Power supply pir	ıs						
L1~L8, R1~R8, LCOM1~LCOM4, BCOM1~RCOM4		See block diagram	Input/output pine	s of the	e analo	g switc	h			
CL, DI, CE	I	D————	Serial data input pins (Schmitt buffer) CL ······ Clock input pin DI ····· Data input pin CE ····· Chip enable pin							
S	I		Selection pins when two are used Setting the S pins to low and high will result in th addresses of the table below.							
			Part name S Address					7		
			rart name	pin	A ₀	A ₁	A ₂	A ₃]	
			LC7821	L	0	1	0	1		
			20.021	H	1	1	0	1		
RES	I	□—< >	Reset pin When the power is switched on the condition of the analog switches is be undetermined, but setting this pin to low level will set all analog switches off.							

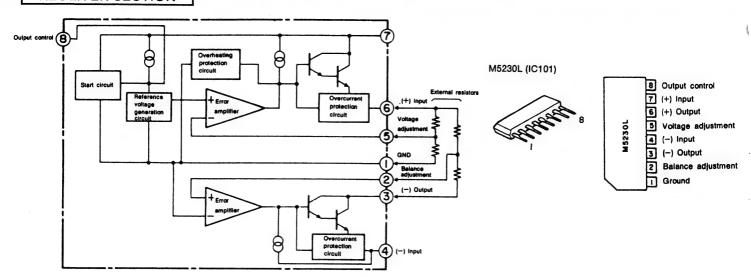




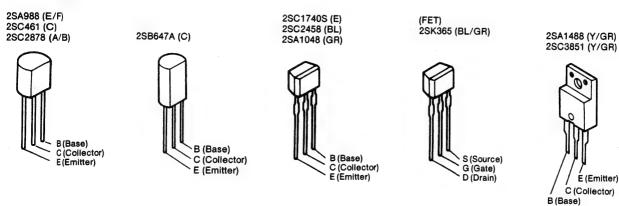


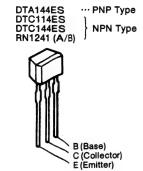






Transistors

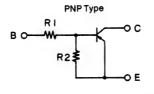




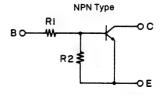




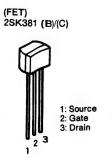
1: GND / Emitter 2: In / Base 3: Out / Collector

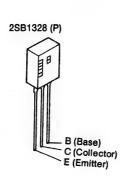


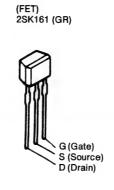
R1	R2
47k ohm	47k ohm
47k ohm	47k ohm
	47k ohm



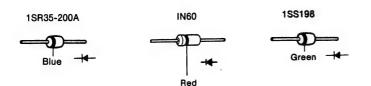
	R1	R2
DTC114ES	10k ohm	1 0k ohm
DTC144ES	47k ohm	47k ohm
RN1241(A/B)	5.6k ohm	_

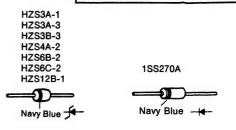


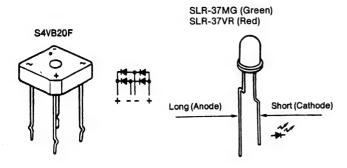




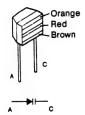
Diodes (including LED)







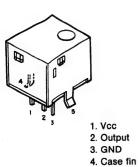
SVC321SPA-D-2 (Varactor)



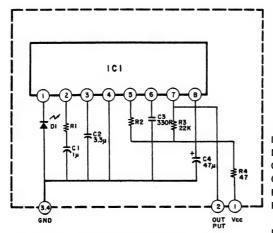
Infrared Remote Control Sensor

SBX1610-52

Part No.: 499 0150 008



- 5. Case fin



* This unit is wholly used in the receiver section.

IC1: D1: C1,C2,C4: C3: R1: R2:

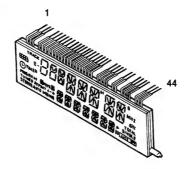
CX20106A chip PIN photodiode chip

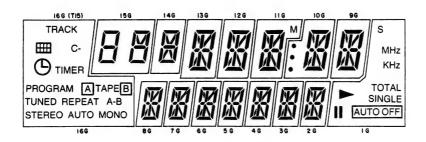
Aluminum electrolytic cpacitor Ceramic SL characterisic≤, ±5%

Carbon film resistor for a fin adjustment Carbon film resistor for adjustment (Use±1%)

R (other than above): ±5%

● FLD Ass'y Part No.: 3934133008 (FIP19AM10)







● Terminal Connection

Terminal No.	1	2	3	4	5	6	7	8	9	10	11	12								
Electrode	F1	F1	F2	NP	16G	15G	14G	13G	12G	11G	10G	9G								
Terminal No.	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Electrode	8G	7G	6G	5G	4G	3G	2G	1G	Pt	Ps	NP	Pr	Pp	Pn	Pn	NP	Pk	Pj	Ph	Pg
Terminal No.									33	34	35	36	37	38	39	40	41	42	43	44
Electrode									NP	Pf	Pe	NP	Pd	Pc	Pd	Pa	NP	F2	F2	F2

Notes

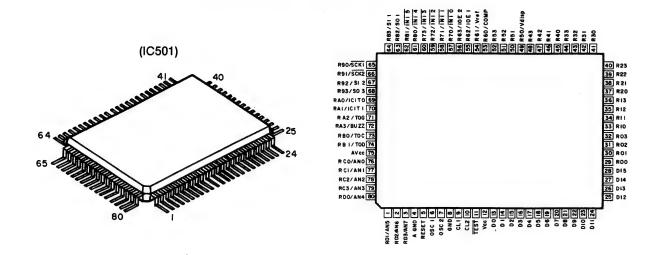
NP: No Pin

F: Filament G: Grid

P: Anode

MICROPROCESSOR DOCUMENTATION

HD404719A16FS Part No.: 262 1571 204



1. Overview

The functions of this microcomputer are made up of the following four pillars.

a. Tuner functions

· These functions perform the required control for the reception of FM and AM broadcasts.

b. Auto Functions

- Positioned at the heart of the system stereo, the auto functions perform serial communications with other components (such as the deck, CD, and amplifier) to provide overall control.
- These functions decode the signals from the remote control and send them to each component of the system.

c. Timer functions

· Counts the clock of the 24-hour display.

d. CD Display functions

· Provides the CD operation displays.

Note 1: When buttons "ENTER/NEXT" and "MEMORY" of the wiring diagram are pressed simultaneously and the power cord is inserted into the power outlet, the frequencies used for the tracking adjustment will automatically be registered in the preset memory as indicated below.

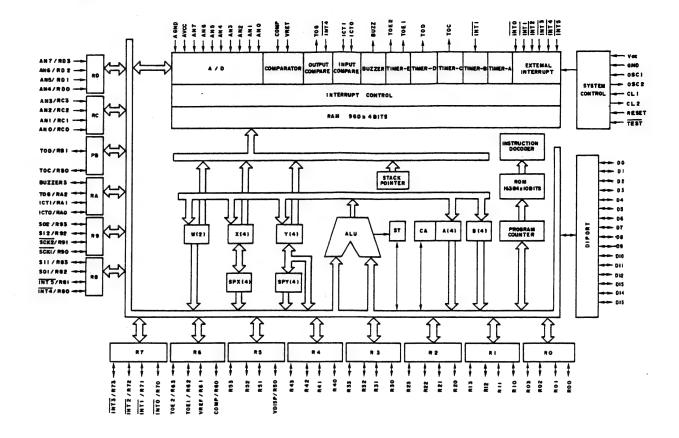
Use this information for tuning and other procedures.

	P1	P2	Р3	P4	Р5	Р6	P7	Р8	Р9	P 10
MW L W (kHz)	522	603	999	1098	1404	1611	153	163	270	279
	P11	P12	P13	P14	P 15	P16	P 17	P18	P19	P 20
FM (MHz)	87.50	89.00	98.00	100.10	108.00	87.50	254	87.50	87.50	87.50
	P 21	P 22	P 23	P 24	P 25	P 26	P 27	P 28	P 29	P 30
AM (kHz)	522	522	522	522	522	522	522	522	522	522

2. Receiving Band Table

Band	Receiving frequency	Local oscillator frequency	IF frequency	Frequency division ratio	Comparison frequency	Step frequency	Other
FM	87.50~108.00 MHz	98.20~118.70 MHz	10.7 MHz	1/2	25 kHz	100 kHz	STEREO
MW	522~1611 kHz	972~2061 kHz	450 kHz	-	9 kHz	9 kHz	
LW	153~279 kHz	603~729 kHz	450 kHz	_	1 kHz	1 kHz	

3. Block Diagram



■ D-60 ■

RECEIVER SECTION

4. IC HD404719A16FS Pin Description (See the Peripheral Wiring Diagram of Page 43.)

PIN NO.	Port Name	1/0	Ī	. A	Function Name	U/D	Function
1	RD1/AN5	I	L	Н	KR1	D	KEY RETURN pulse input pin.
2	RD2/AN6	I	L	Н	KR2	D	KEY RETURN pulse input pin.
3	RD3/AN7	I	L	Н	KR3	D	KEY RETURN pulse input pin.
4	AGND	-	_	_		-	Analog ground pin. Connect to ground.
5	RESET	I	L		RESET	D	System reset input pin of the microprocessor.
6	OSC1	I				-	System clock input pin of the microprocessor. (f=4 MHz)
7	OSC2	0				-	System clock output pin of the microprocessor. (f=4 MHz)
8	GND	-	-	_		-	Ground pin.
9	CL1	I				_	Input pin for the clock. (f=32.768 kHz)
10	CL2	0				_	Output pin for the clock. (f=32.768 kHz)
11	TEST	I				U	Connect to Vcc (pin 12).
12	Vcc	_	_	-		-	5 V power supply pin. (Back up)
13-28	D0-D15	0	L		Т15-Т0	(D)	Digit output pins for fluorescent tube drive.
29-32	R00-R03	0	L		t-p	(D)	Segment output pins for fluorescent tube drive.
33-36	R10-R13	0	L		n-j	(D)	Segment output pins for fluorescent tube drive.
37-40	R20-R23	0	L		h-e	(D)	Segment output pins for fluorescent tube drive.
41-44	R30-R33	0	L		d-a	(D)	Segment output pins for fluorescent tube drive.
45	R40	0	L		S.CLOCK	D	Serial clock output pin for the LC7821.
46	R41	0	L		S.DATA	D	Serial data output pin for the LC7821.
47	R42	0	L		S.CE	D	CE output pin for the LC7821.
48	R43	0	L	L	S.FUNC MUTE	D	This pin outputs the muting output when FUNCTION or TONE changes.
49	R50/Vdisp	I	_	_	Vdisp	-	Connect to -30 V. This pin is for the mask option.
50	R51	I	_	_	NC	U	
51	R52	I	-	_	NC	U	
52	R53	I	Н		REMOCON IN2	U	Remote control 2 input pin for room to room.
53	R60/COMP	0	Н	L	POWER OFF	D	Control output pin at the time of POWER ON/OFF.
54	R61/Vref	0	Н	L	RELAY	U	This output pin performs a toggle operation in synchronization with the POWER button and drives a relay which switches on and off the power of other equipment.
55	R62/TOE1	0	Н	L	VOLUME DOWN	U	Output pin for the motor-drive volume control. Down is low leve.
56	R63/TOE2	0	Н	L	VOLUME UP	U	Output pin for the motor-drive volume control. Up is low level.
57	R70/INTO	I	Н		SERIAL SIG IN	U	Input pin for serial communications.
58	R71/INT1	I	Н		50/60 IN	U	50/60 Hz half wave rectified pulse input pin.
59	R72/INT2	I	Н		REMOCON IN1	U	Input pin for remote control 1.
60	R73/INT3	I	Н		SCK	U	Clock input pin for the CD display data.
61	R80/INT4	I	L	Н	PROTECT IN	D	Input pin for switching the SP relay off for 4 seconds.
62	R81/INT5	0	Н		SERIAL SIG OUT	U	Output pin for serial communications.
63	R82/SO1	0	Н		S01	U	Data output pin for the CD display data.
64	R83/SI1	I	Н		SI1	U	Data input pin for the CD display data.

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DENO-00058 / Druck 4

PIN NO.	Port Name	1/0	ı	Α	Function Name	U/D	Function
65	R90/SCK1	0	L	Н	KARAOKE	D	Outputs a high-level signal when the PRESET TONE is KARAOKE.
66	R91/SCK2	0	L		CLOCK	U	Clock output pin for the serial data when the data is sent to the programmable divider.
67	R92/SI2	0	L		ST.REQ	U	This output pin makes a request that the IF count operation to the programmable divider be started when, during auto tuning, a signal from the vicinity of the station is input from the detection IC.
68	R93/SO2	0	L		DATA	U	Serial data output pin for sending data to the programmable divider of the PLL IC.
69	RAO/ICTO	0	L		CE	U	This output pin is set to high level when sending data to the programmable divider, then returned to low level when the data transmission is completed in order to latch the register.
70	RA1/ICT1	0	L	L	MUTE	U	Control signal output pin for applying muting to the audio output of the tuner.
71	RA2/TOG	0	L	Н	AUTO/MONO	D	Control signal output pin for the monaural/stereo switching pins of the FM MPX IC.
72	RA3/BUZZ	0	Н		SCi ENABLE	U	ENABLE clock output pin for the CD display data.
73	RB0/TOC	0	L		CLOCK32K	U	Adjustment pin of the crystal. (4 Hz)
74	RB1/TOD	0	L	Н	CD ON/OFF	D	Controls the power of the CD when the function is CD. High level when CD is selected.
75	AVCC	I	-	-			Connect to Vcc.
76	RCO/ANO	I	Н	L	STOP IN	U	This input pin takes in the signal which is output from the programmable divider when the station has been tuned during auto tuning (i.e., when the IF count has reached the specified value).
77	RC1/AN1	I	Н	L	STEREO IN	U	Input pin used for taking in the stereo display signal from the FM MPX IC and displaying it on the fluorescent tube.
78	RC2/AN2	I	Н	L	TUNED IN	U	This pin takes in the signal when the synchronous circuit has been properly tuned. Low level when tuned.
79	RC3/AN3	I	Н	L	SIGNAL IN	U	Input pin for detecting that a station is in the vicinity during auto tuning. (Active low)
80	RDO/AN4	I	Н	L	KR0	D	KEY RETURN pulse input pin.

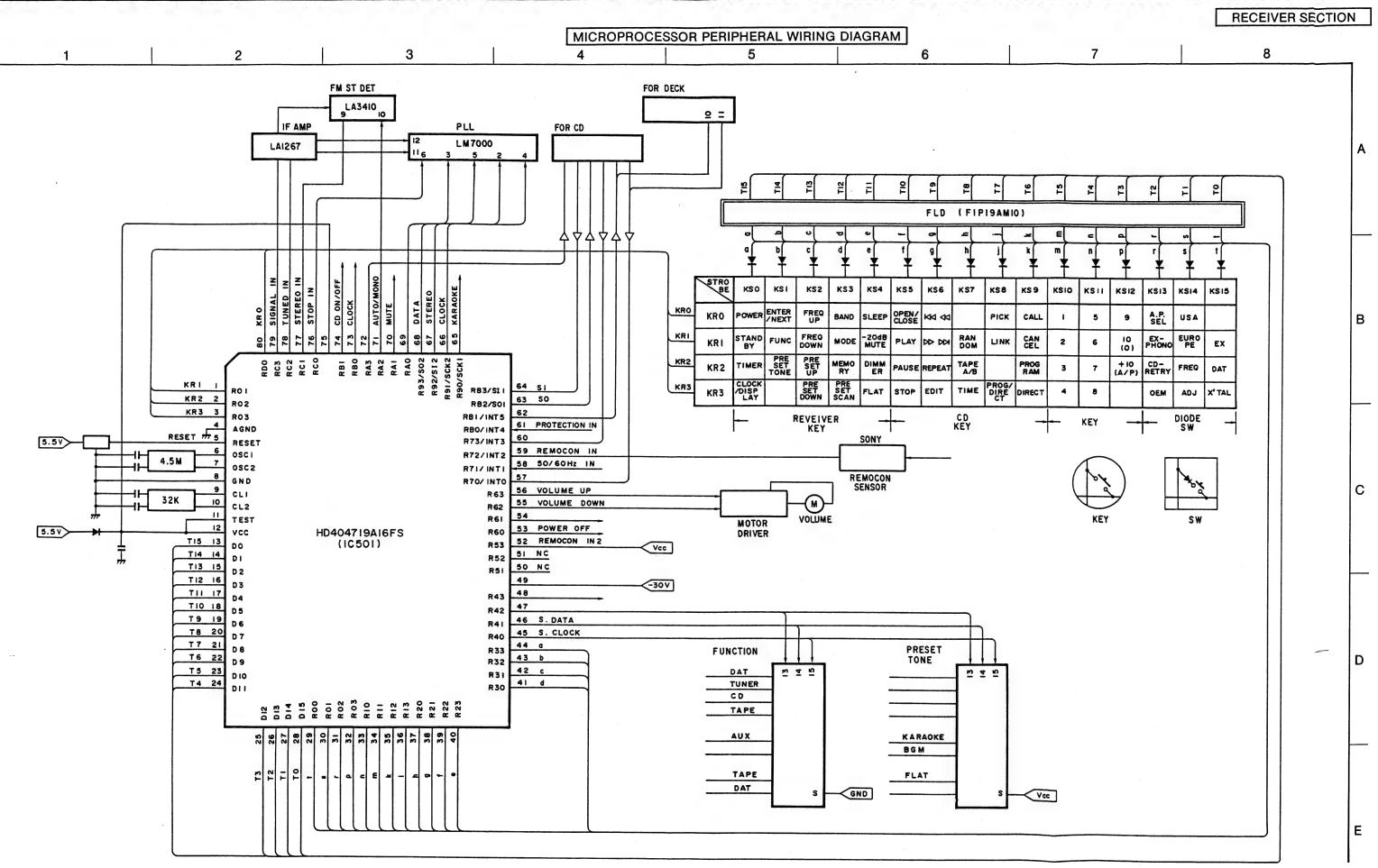
I/O ······ Input/Output

I At time of initialization

A When active

U/D Pull Up/Pull Down

43



15P SYSTEM SOCKET 13P SYSTEM SOCKET (UCD)

CNIOC

KU-9260B-6

PROCESSOR LOOP UNIT

PROCESSOR LOOP

CN5A

SUPPER WOOFER PIN JACK SPEAKER TERMINAL AC CORD

AC240V, 50Hz (for U. K model)

AC230V, 50Hz

Ε

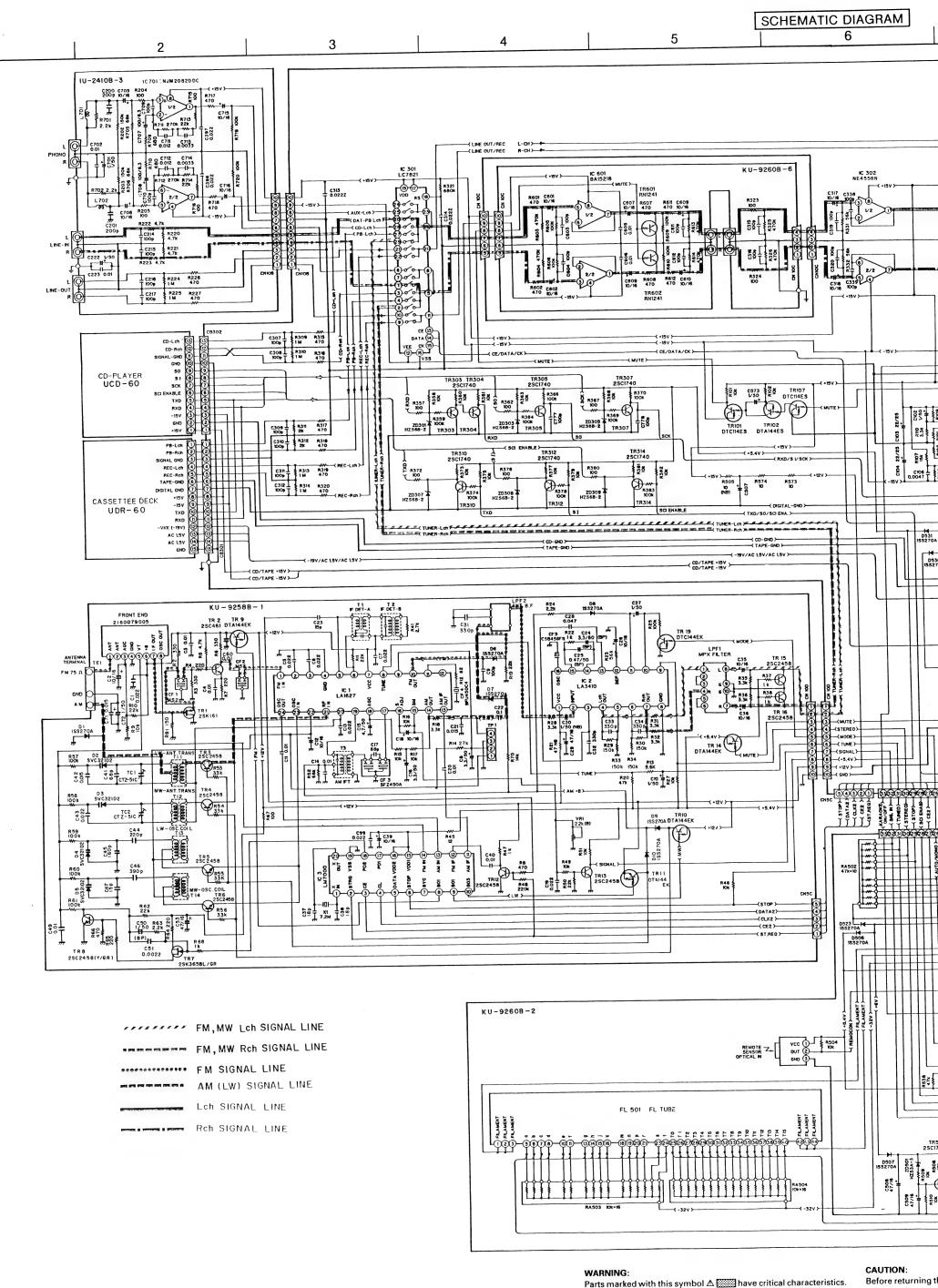
44

ANTENNA TERMINAL

1U-2410B-3

INPUT UNIT

I/O TERMINAL

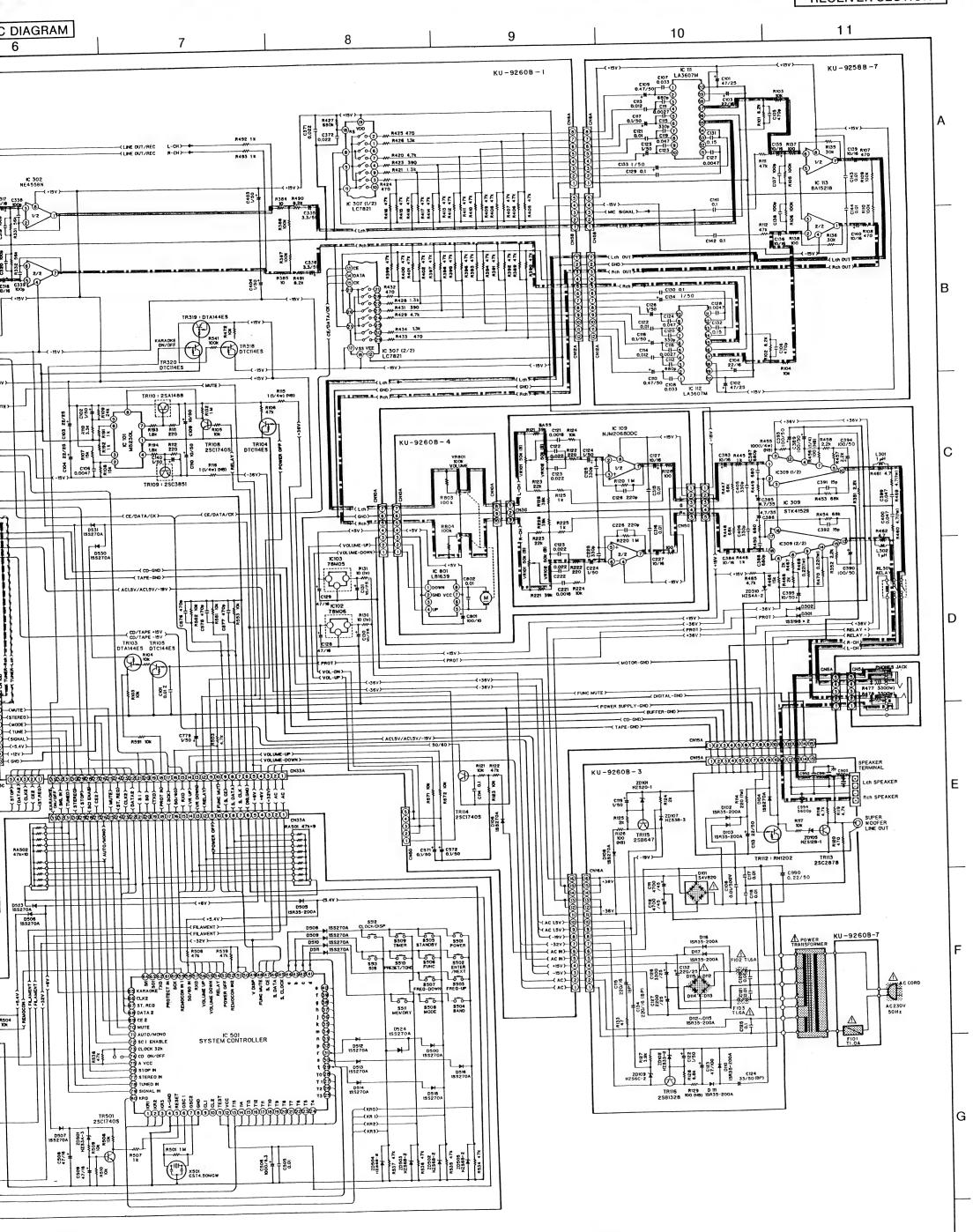


1

Before returning to leakage current ex defective.

WARNING DO NOT return the

Use ONLY replacement parts recommended by the manifacturer.



istics.

urer.

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 240 kohms, the unit is defective.

WARNING

DO NOT return the unit to the customer until the problem is located and corrected.

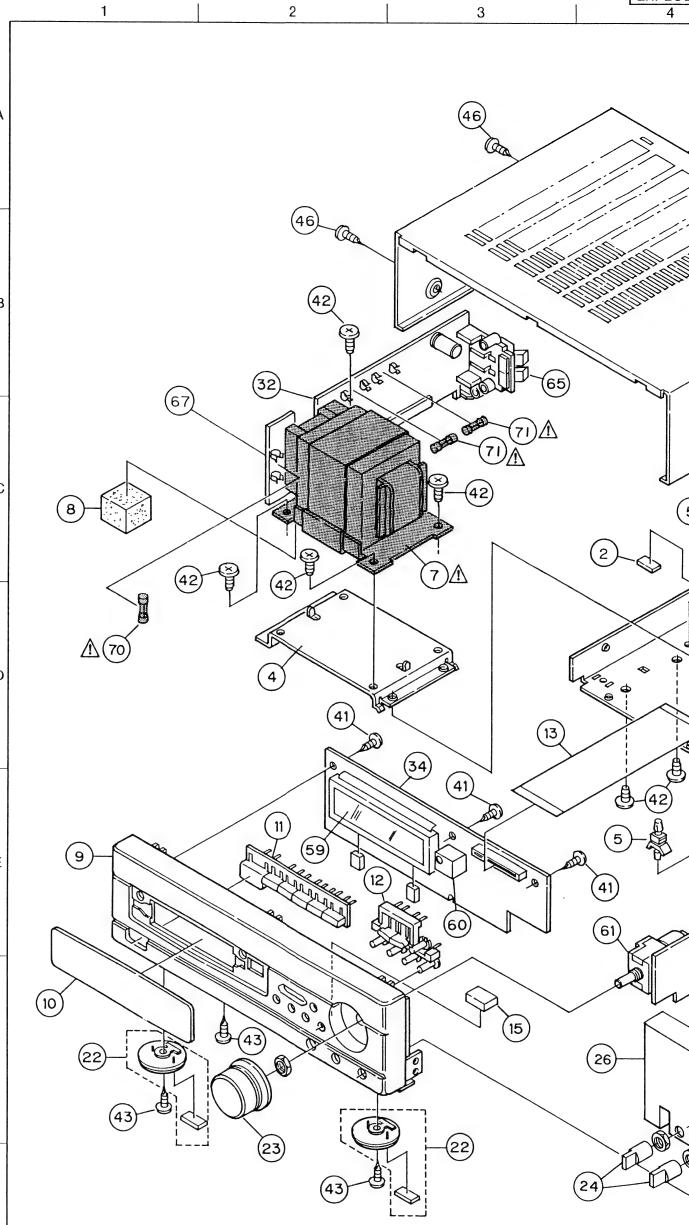
NOTES ALL RESISTANCE VALUES IN OHM K=1,000 OHM M=1,000,000 OHM ALL CAPACITANCE VALUES IN MICRO FARAD P-MICRO-MICRO FARAD EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION. CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

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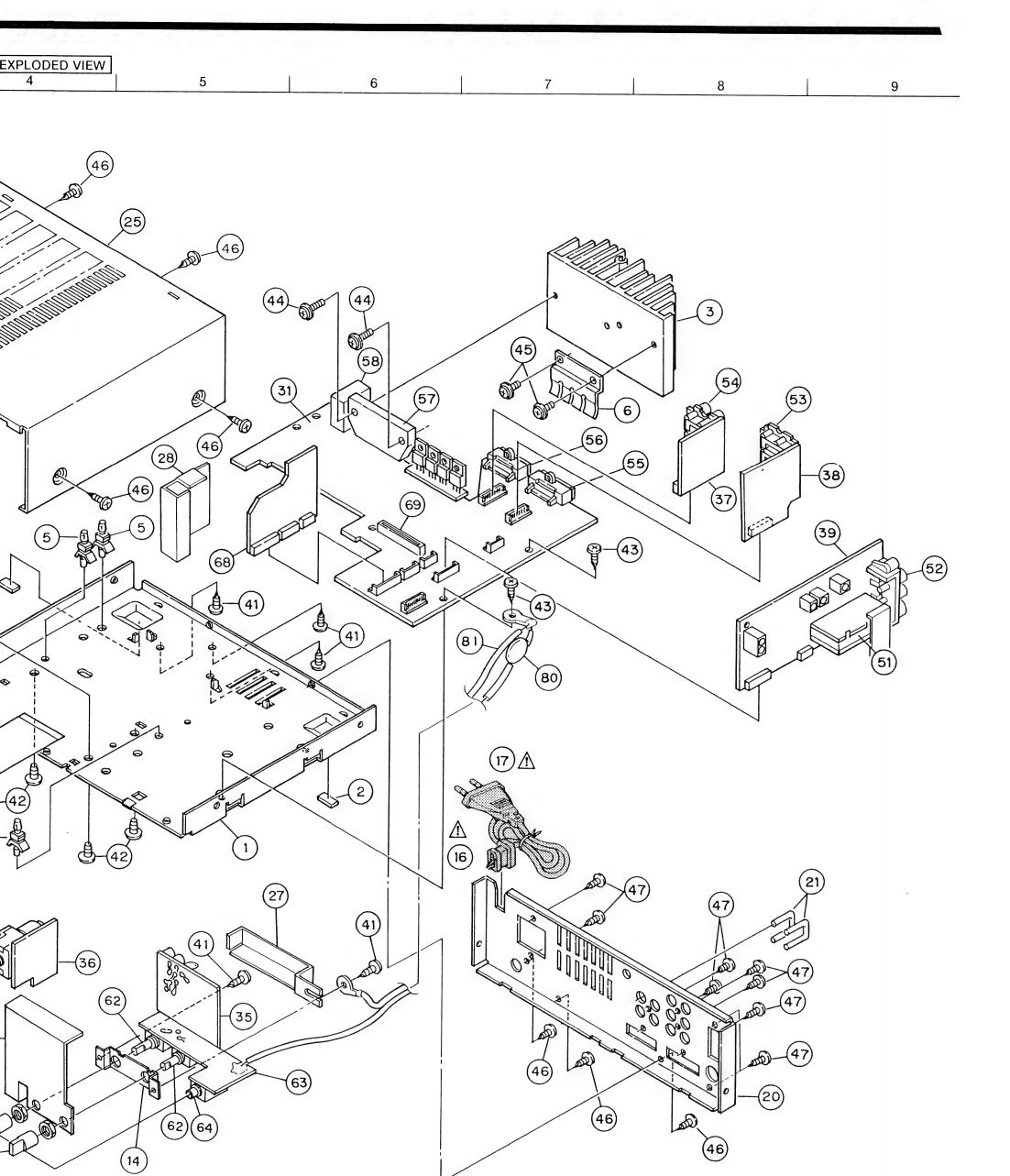
EXPLOI 4 3

	THO LIC	1)F U		M-00 EXPLODED V	ICAA		
R	lef. No.	╀	art No		Part Name	Remarks	Q'ty	
	1 2	411	1158 0079				1 2	
	3	1	0455				1	
	4	1	3471				1	
	5	415	9016	019	P.C.B Holder		4	
. 36	6		3470	F 12 4	Spring Plate	Carlling I thewarts to the	1	
Δ_{\perp}	100 751 562	SE CKENTEROWSHOW	5947	MANUAL PROPERTY.	The second secon	ne. Vile		
	8 9	146	0723 1349				1 1	
	10	1	0784				1	
	11	1			Timer Knob		1	
	12	113	1506	100	Function Knob		1	
	13	1	0066		33P FF Cable		1	_
•	14	1	3553				1	
A &	15 51 16 1	461	0722 2 0056	187 D. S.	Rubber Sheet Cord Bush		1	
Δ	17	1 1	2073	100	Transaction of the control of the co	ander the second second	4	
<u> </u>	18		0546		UL Tube (8.3) Black		1	
_	19				_			
	20	105	1021		Rear Panel		1	1
	21 22	i	0752 0258		Short Pin Foot Ass'y		2	
	23	1	0707		Main VR Knob Ass'y		2	
	24	1	0708		Mic VR Knob		2	
	25	1	0508		Top Cover		1	
	26	414	9126	003	Shield Case		1	
	27	1	9127		Shield Bracket		1	
	28	414	9128	001	Shield Cover		1	
	24		0000	р -	Amp III=i4			
●●	31 32	1	9260 9260		Amp Unit Power Unit		1 1	
●	33	\	-	D-0	- Swel Gill			
<u>.</u>	34	ku-	9260	B-2	Display Unit		1	
•	35	[2410		Tone Unit		1	,
•	36	Į.	9260		Master Vol. Unit		1	(
•	.37	1	9260		Processor Loop Unit		1	
•	38	Į.	2410		Input Unit		1	
●	39	l	9258		Tuner Unit		1	
*	40 41		0723 7500		Cushion	Plack	1	
	41	1	7026		Tapping Screw (P) 3×8 Tapping Screw (S) 4×6	Black Black	10	
	43	l	7002		Tapping Screw (S) 3×8	Black	11	
	44	l	8007		Cup Screw 3×14		2	
	45	l	8007		Cup Screw 3X8		2	
	46	473	7015		Tapping Screw (S) 3×8	Black	4	
	47	477	0064	107	Fixing Screw		6	
	48 51	477 216	0276 9009		Earth Screw FM Front End	KII OSEOD 4	1	
	52		0603		3P Ant. Terminal (DIN)	KU-9258B-1 KU-9258B-1	1	
	53	i	8278		6P Pin Jack (S-GND)	1U-2410B-3	1	
	54		8266		4P Pin Jack (S-GND)	KU-9260B-6	1	
	55	204	8284	022	15P System Socket	KU-9260B-1	1	
	56	i	0730		13P System Socket (BU)	KU-9260B-1	1	
	57	ı	0073		IS STK4152Ⅱ	KU-9260B-1	1	
	58 50	l .	0154		Relay (VB24SMBU)	KU-9260B-1	1	-
	59 60		4133 0150		FLD (FIP19AM10) Remocon Receiver SB×1610-52	KU-9260B-2	1	
	61	211	0749	107	SB×1610-52 Variable Resistor 100k ohm	KU-9260B-2 KU-9260B-4 VR801	1	
	62	211	0766		Variable Resistor 50k ohm	VR801 1U-2410B	2	
	63	1U-	2410		Tone Vol. Unit	1U-2410B	1	
	64		8370	-	Head Phone Jack (D: 3.6)	1U-2410B	1	
	65	205	0592	029	4P Push Terminal	KU-9260B-3	1	
2	66		_					E
•	67		9260		Trans AC Unit		1	
•	68 69		9258 0736		EQ. Unit	KII 0000D 4	1	
A #	69 6 70		1015	mere K.	33P FFC Base Fuse 1AT	KU-9260B-1 F101 v	1	
12	71	S. Michael Strate	1015	B 5 . W.	Fuse 1.6AT	F101 F102 103	2	
*	72	461	0723	Service to Annual States	Cushion	red Maria Maria III com	1	
k	73		0288		1P Contact Ass'y		1	_
k	74	205	0071	016	Terminal Ass'y		1	
k	75	477	0018		Washer (P-87)		1	
*	76	204	8406	004	1P Pin Jack	KU-9260B-3	1	
	77 70		-		_			
*	78 79	415	0033	OOS	Wire Clamp Page			
~	79 80		17458	oub	Wire Clamp Base 3T Lug Sub Ass'y		1 ^S	F
	81		9033	004	1P Wire Ass'y		1 ^S	•
	LABELS	555	2000	557	, 100 y			
	91		_		_			
	92		-		_			
*	93	513	1581	800	Serial No. Sheet		1	
_	94				_		_	
	D 4 01/1110	& A(CESS	ORIE	S (Not included EXPLODED	VIEW)		
	101		0241	005	Cabinet Cover		1	
		505	0241 - 1038		Cabinet Cover — Cushion		1	



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NOTE FOR PARTS LIST

- Part indicated with the mark "@" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.

WARNING:

Parts marked with this symbol \triangle with this symbol \triangle have critical characteristics.

Use ONLY replacement parts recommended by the manifacturer.

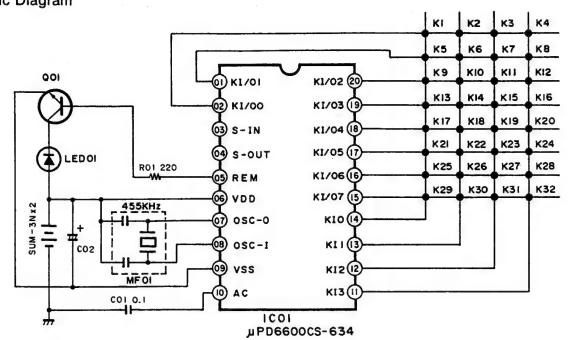
REMOTE CONTROL UNIT

(RC-148: Part No.: 3990156003) 5

RECEIVER SECTION

8

Schematic Diagram



ALL RESISTANCE VALUES IN OHM K=1,000 OHM M=1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD P=MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION. CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

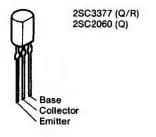
KEY	FUNCTION		
NO.	FUNCTION		
K 1	POWER ON/OFF	Receiver	0
K 2	VOLUME UP	Receiver	0
K 3	VOLUME DOWN	Receiver	0
K 4	SLEEP	Receiver	0
K 5	MUTING	Receiver	0
K 6	PRESET UP	Receiver	0
K 7	PRESET DOWN	Receiver	0
K 8	FUNCTION	Receiver	0
K 9	PRESET EQ	EQ	0
K10	AUTOMATIC SEARCH	CD	0
K11	AUTOMATIC SEARCH	CD	0
K 12	MANUAL SEARCH	CD	0
K 13	MANUAL SEARCH	CD	0
K14	PLAY >	CD	0
K 15	STOP 🖀	CD	0
K16	PROGRAM	CD	0
K 17	TIME MODE	CD	0
K 18	OPEN/CLOSE 📤	CD	0
K 19	FF →	DECK	0
K 20	REW ←	DECK	0
K 21	PLAY >	DECK	0
K22	PLAY (REW) ◀	DECK	0
K 23	STOP	DECK	0
K24	REC/REC MUTE ●	DECK	0
K 25	SELECT 1/2	DECK	Q
K 26	OPEN/CLOSE 📤	DECK	0
K 27	SP-A	Receiver	
K28	SP-B	Receiver	
K 29	FLAT	EQ	
K 30	PAUSE	CD	
K 31	REC PAUSE	DECK	
K 32	OPEN/CLOSE 2 📤	DECK	

	KEY		Sys	tem o	code				Data	code	2		Expa	nsion	Mask	Ruling	Remarks	
	NO.	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	K	Remarks	
] [K 1	0	0	1	1	0	0	0	0	0	1	0	1	0	0	0	POWER ON/OFF	Receiver
	K 2	0	0	1	1	0	1	0	1	1	0	0	1	0	0	0	VOLUME UP	Receiver
1	К 3	0	0	1	1	0	0	0	.1	1	0	0	1	0	0	0	VOLUME DOWN	Receiver
	K 4	0	0	1	1	0	0	1	0	0	1	1	1	0	0	0	SLEEP	Receiver
	K 5	0	0	1	1	0	1	1	0	1	0	0	1	0	0	0	MUTING	Receiver
	K 6	0	0	1	1	0	0	1	1	1	0	0	1	0	0	0	PRESET UP	Receiver
	K 7	0	0	1	1	0	1	1	1	1	0	0	1	0	0	0	PRESET DOWN	Receiver
Ì	K 8	0	0	1	1	0	1	1	1	1	1	0	1	0	0	0	FUNCTION	Receiver
Ì	К 9	0	0	0	1	0	0	0	1	1	0	1	1	1	0	0	PRESET EQ	EQ
Ī	K10	0	0	0	1	0	0	0	0	1	1	0	1	0	0	0	AUTOMATIC SEARCH	CD
ı	K11	0	0	0	1	0	1	0	0	1	1	0	1	0	0	0	AUTOMATIC SEARCH	CD
Ī	K12	0	0	0	1	0	0	1	0	1	1	0	1	0	0	0	MANUAL SEARCH >>	CD
Ì	K13	0	0	0	1	0	1	1	0	1	1	0	1	0	0	0	MANUAL SEARCH ◀◀	CD
ı	K14	0	0	0	1	0	0	0	1	1	1	0	1	0	0	0	PLAY ▶	CD
	K15	0	0	0	1	0	0	1	1	1	1	0	1	0	0	0	STOP	CD
	K16	0	0	0	1	0	1	0	1	. 1	0	0	1	0	0	0	PROGRAM	CD
	K17	0	0	0	1	0	1	1	0	0	1	0	1	0	0	0	TIME MODE	CD
-	K18	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	OPEN/CLOSE 📤	CD
	K19	0	0	1	0	0	0	1	0	1	1	0	1	0	0	0	FF ▶▶	DECK
	K20	0	0	1	0	0	1	1	0	1	1	0	1	0	0	0	REW ◀◀	DECK
	K21	0	0	1	0	0	0	0	1	1	1	0	1	0	0	0	PLAY >	DECK
	K22	0	0	1	0	0	1	1	1	0	1	0	1	0	0	0	PLAY (REW) ◀	DECK
	K23	0	0	1	0	0	0	1	1	1	1	0	1	0	0	0	STOP	DECK
	K24	0	0	1	0	0	1	1	1	1	1	0	1	0	0	0	REC/REC MUTE ●	DECK
	K25	0	0	1	0	0	1	1	0	0	1	0	1	0	0	0	SELECT 1/2	DECK
	K26	0	0	1	0	0	1	1	0	0	1	1	1	0	0	0	OPEN/CLOSE 📤	DECK
	K27	0	0	1	1	0	0	1	0	1	0	1	1	0	0	0	SP-A	Receive
	K28	0	0	1	1	0	1	0	0	1	0	1	1	0	0	0	SP-B	Receiver
	K29	0	0	0	1	0	1	1	1	1	0	0	1	1	0	0	FLAT	EQ
Ī	K30	0	0	0	1	0	1	0	1	1	1	0	1	0	0	0	PAUSE !	CD
İ	K31	0	0	1	0	0	1	0	1	1	1	0	1	0	0	0	REC PAUSE	DECK
	K32	0	0	1	0	0	0	1	0	0	1	1	1	0	0	0	OPEN/CLOSE 2▲	DECK

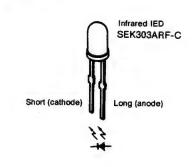
Ref. No.	Part Name	Remarks
IC01	IC	μPD6600CS-634
Q01	Transistor	2SC3377 Q/R, 2SC2060 Q/R
LED01	Infrared LED	SE303ARF-C
C01	Ceramic Cap.	0.1 μF/25V
C02	Chemi Con.	47 μF/6.3V
MF01	Ceramic OSC.	CSU455PB
R01	Resistor	220Ω, 1/6W

6

Transistors



Diodes



D

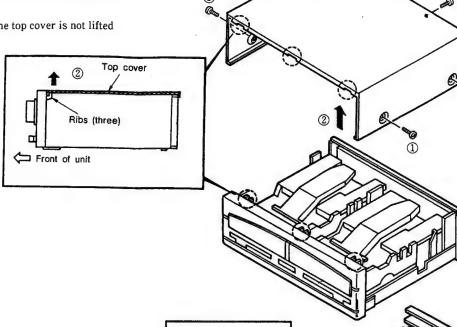
DISASSEMBLY PROCEDURES

(Follow these procedures in reverse order to reassemble.)

1. Removing the top cover and front panel

- ① Remove the six screws fastening the top cover.
- 2 Lift the top cover in the direction of the arrow. The top cover is caught in the three ribs in the front panel, so lift it straight upwards.

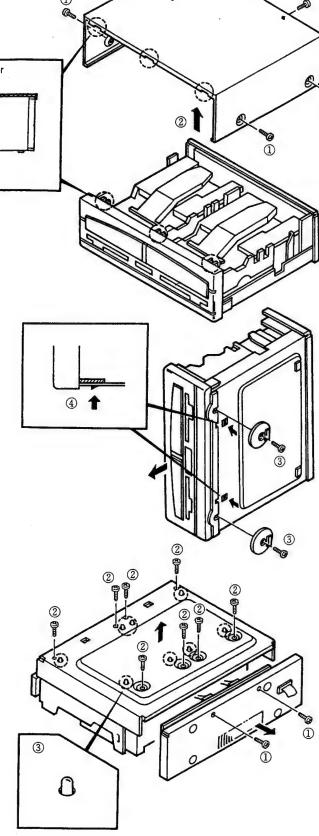
NOTE: The front panel hook will break if the top cover is not lifted straight upwards.



- $\ensuremath{\mathfrak{J}}$ Set the unit up as shown in the diagram, then remove the two screws fastening the foot assembly.
- ① Unlatch the hook of the front panel from the chassis and remove the front panel in the direction of the arrow.

2. Removing the cassette mechanism unit

- ① Turn the main unit over as shown in the diagram and remove the two screws fastening the rear panel.
- ② Remove the eight screws fastening the cassette mechanism unit, then remove the cassette mechanism unit from the main chassis in the direction of the arrow.
- 3 When reinstalling the cassette mechanism unit, set the eight mechanism bosses into the main chassis.



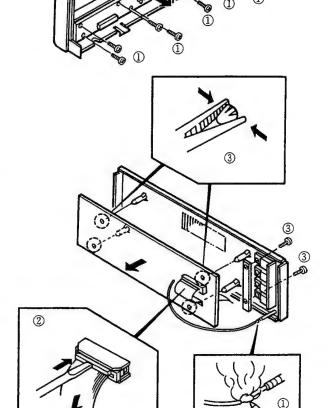
3. Removing the printed wiring boards

DECK DISPLAY UNIT KU-9257B-3

① Remove the eight screws fastening the deck display unit, then remove the printed wiring board in the direction of the arrow.

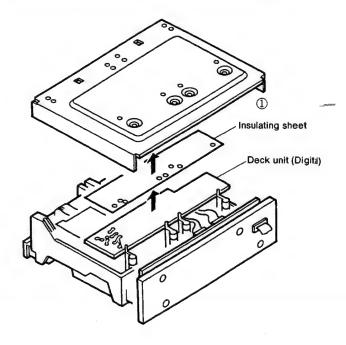
DECK UNIT (ANALOG) KU-9257B-1

- 1 Remove the solder from the ground screw.
- 2 Pressing down on the locking section of the connector, disconnect the wires in the direction of the arrow.
- 3 Unlatch the four PCB holders fastening the amplifier unit, using radio pliers, etc., then remove the circuit board in the direction of the arrow.

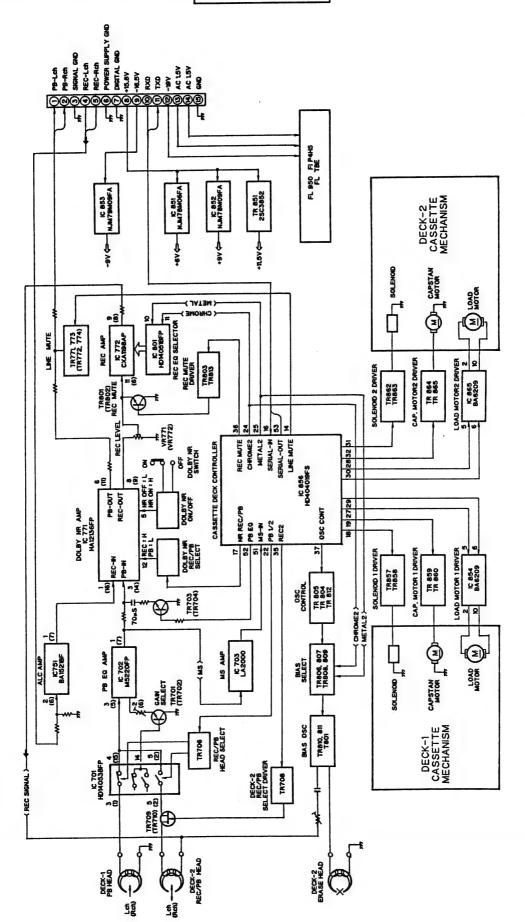


DECK UNIT (DIGITAL) KU-9257B-2

1 Remove the main chassis. The deck unit (digital) is located under the insulating sheet.

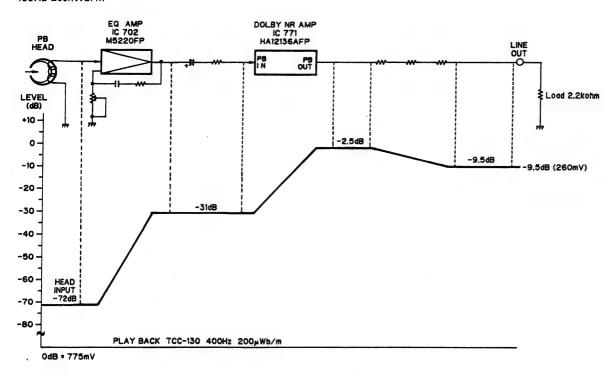


BLOCK DIAGRAM

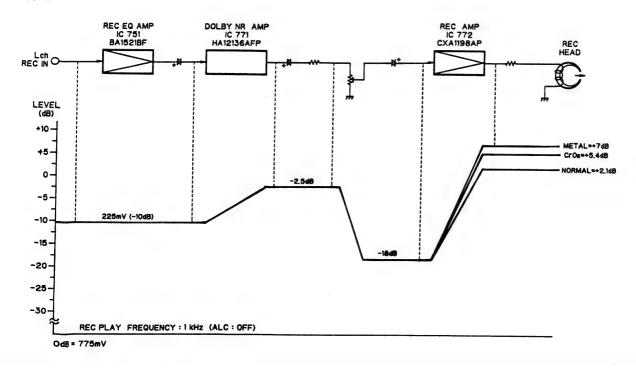


LEVEL DIAGRAM

(Playback) TCC-130 DOLBY B-TYPE 400Hz 200nWb/m



(Recording)
INPUT FREQUENCY
400Hz



ADJUSTMENT

Mechanism Measurements

Measurement item	Standard value	Remarks
Winding torque (PLAY)	35~70 gcm	SONY TW-2111 for forward, TW-2121 for reverse
Fast-forward and rewind torque	70~180 gcm	SONY TW-2231
Back tension torque	2 +2.3 gcm	SONY TW-2111 for forward, TW-2121 for reverse
Pinch roller pressure	270 ± 50 g	See diagram at right
Fast-forward and rewind time	110 ± 15 s	C-60



With the deck in the play mode, apply force with the tension gauge in the direction of the arrow and read the value at which the pinch roller stops rotating.

ELECTRICAL ADJUSTMENTS

Preparations Before Adjustments

1. Measuring Instruments Necessary for Adjustments

Screwdriver: Small flat-bladed screwdriver for variable resistors

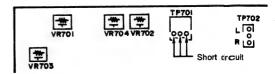
- Low frequency oscillator
- Attenuator
- V.T.V.M.
- Oscilloscope
- Frequency counter
- Test tapes (TEAC MTT-111, MTT-114, MTT-150, DENON HDX/60, or equivalent)

Adjustment notes

- ① Before adjusting, wipe the surface of the heads, the capstans, and the pinch rollers with a piece of gauze moistened with alcohol.
- 2 Demagnetize the playback, recording, and erasure heads with a head eraser.
- 3 Completely demagnetize the adjustment screwdriver.
- 4 Adjust the attenuator for a recording input level of 22mV at the DAT/VTR P.B. Terminal.
- (5) Unless otherwise specified, set the switches at the following positions and use the P.B Terminal IN jacks for the input, and TP7O1 of the KU-9257B-1 (deck unit) for the output.

DOBLY NR SW: OFF EQUALIZER SW: OFF

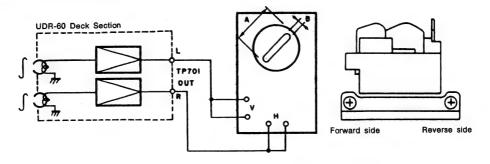
6 Use an alligator clip cord to short circuit TP-701 of the KU-9257B-1 deck board as shown in the diagram to the right and on Page 53.



2. Playback adjustments

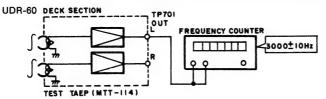
2-1 Azimuth adjustment

Play back the (TEAC MTT-114) test tape and turn the azimuth adjustment scrw to yield maximum values for the left and right channels. Lock the screw.



2-2 Tape speed check and adjustment

- Connect the frequency counter to TP-701.
- ① Play the test tape (MTT-111) on deck 1 and once tape transport has stabilized, adjust normal-speed-adjustment variable resistor (motor Variable Resistor) to yield 3,000 Hz ± 10 Hz.
- ② Using the same procedure on deck 2, adjust variable resistor (motor Variable Resistor).



2-3 Playback level check and adjustment

Play a Dolby reference level tape (TEAC MTT-150) and check that the voltage of the left and right monitor outputs of TP-702 on the KU-9257B-1 deck board is within 580 mV \pm 1 dB.

If it is not within this range, the playback level requires adjustment.

NOTE: When adjusting deck 1, the playback level of deck 2 also changes; therefore, the playback level of deck 2 should be readjusted.

- For deck 1, adjust: VR703 (Left channel), and VR704 (right channel)
- For deck 2, adjust: VR701 (Left channel), and VR702 (right channel)

Caution: Always adjust the playback level starting from the left deck first.

3. Recording adjustments (deck 2 only)

3-1 Overall frequency response adjustment for recording and playback

Load a blank DENON HDX/60 tape for adjustment purposes and record and play it back, adjusting the input attenuators of the 1 kHz and 10 kHz signals to yield a left and right monitor output voltage of 58 mVat TP702 of the KU-9257B-1 deck board. Adjust so that the 10 kHz level is about +0.5 dB with respect to 1 kHz, and the overall response is within the range shown in the diagram below.

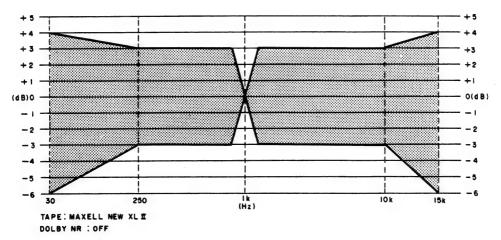
• If the 10 kHz output is larger than the 1 kHz output, turn VR801 (left channel) and VR802 (right channel) counterclockwise, and if it is smaller, turn these controls clockwise.

3-2 Recording level check and adjustment

Load a blank DENON HDX/60 tape for adjustment purposes and check that the voltmeter indication is within the 58 mV \pm 1 dB range when a 1 kHz signal is recorded and played back.

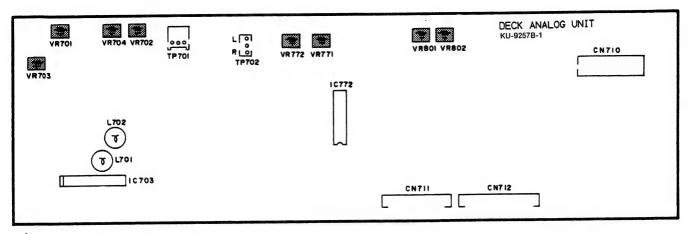
If it is not within this range, the recording level requires adjustment.

• If the level at the time of playing back the recording is higher than at the time of recording, turn VR771 (left channel) and VR772 (right channel) counterclockwise, and if lower, turn these controls clockwise.



OUTLINE DIAGRAM OF ADJUSTMENT LOCATION

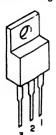
KU-9257B-1 DECK UNIT (ANALOG) ASS'Y (Component Side)



FRONT PANEL SIDE

O IC's

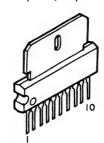
NJM78M06FA (S) (IC851) NJM78M09FA (S) (IC852) (Three-terminal positive constant voltage power supply)

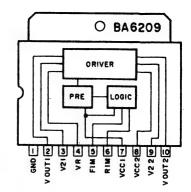


1: Output 2: GND 3: Input

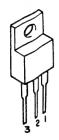
SEMICONDUCTORS

BA6209 (IC854, 855)



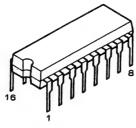


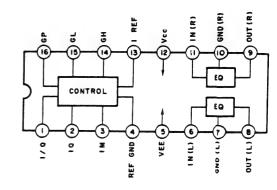
NJM79M09FA (IC853) (Three-terminal negative constant voltage power supply)



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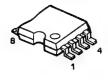
CXA1198AP (IC772)

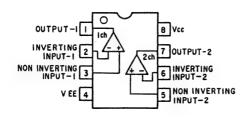


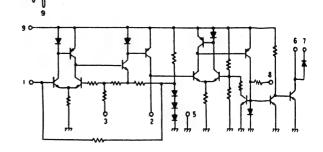


LA2000 (IC703)

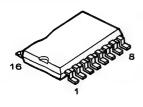
M5220FP (IC702) BA15218FP (IC751,752)

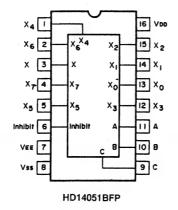


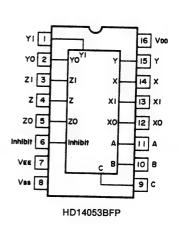




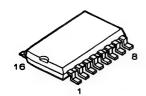
HD14051BFP (IC801) HD14053BFP (IC701)

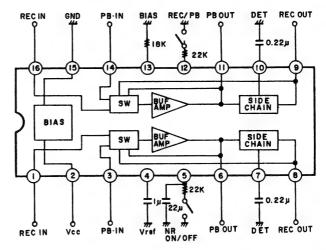






HA12136AFP (IC771)





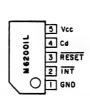
(Ta = 25°C. Vcc = 12 V, at time of no signal, constant values in the table are standard values.)

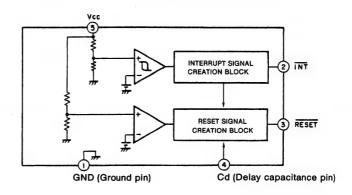
				t time of no signal, constant values in the	
Pin No.	Symbol	R (in)	V DC	Equivalent circuit	Notes
1.16	REC IN	56k ohm	6.0V	56K Vcc/2	Recording (Encode) input
2	Vcc	-	12.0V		Power supply
3.14	PB IN	100k ohm	6.0V	Vcc/2 GND	Playback (Decode) input
4	VREF	-	6.0V		Reference voltage
5	NR ON/OFF	_	-	Vcc 3v BE W 4v BE IOOK	Mone control pin for NR ON/OFF "H" → NR ON "L" → NR OFF
6.11	PB OUT	_	6.0V	VCC 100 W	Playback (Decode) output

Pin No.	Symbol	R (in)	V DC	Equivalent circuit	Notes
7.10	DET	-	1.3V	Vec gnd	Time constant pin for the level detector
8. 9	REC OUT	-	6.0V	100 Vec	Recording (Enode) output
12	REC/PB	-	-	SV BE IK OMA SV BE IOOK GND	Node control pin for ECC/PC (Encode/Decode) "\" → REC (Encode) "\" → PB (Decode)
13	BIAS	_	1.0V	Voc	Ederence current input fa for the active faters "
15	GND		ov		Cou md

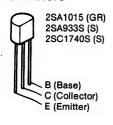
M62005L (IC857)





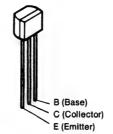


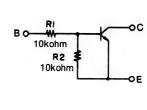
Transistors



2SB562 (C)

DTC114ES ··· NPN Type

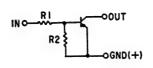






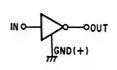
- 1: GND/Emitter 2: In/Base
- 3: Out/Collector

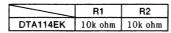
DTA114EK PNP Type
DTC114EK
DTC114TK
DTC124EK
DTC144EK
DTC323TK



B (Base) C (Collector)

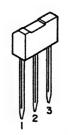
E (Emitter)





DTAEK Series

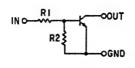
2SB1307M (Q)

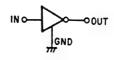


- 1: Emitter
- 2: Collector
- 3: Base

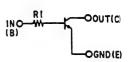
DTCEK Series

DTCTK Series



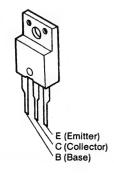


	R1	R2
OTC114EK	10k ohm	10k ohm
OTC124EK	4.7k ohm	4.7k ohm
OTC144FK	47k ohm	47k ohm



	R1
DTC114TK	10k ohm
DTC323TK	10k ohm

2SC3852

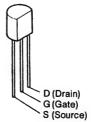


(Chip) 2SC2412K (S)

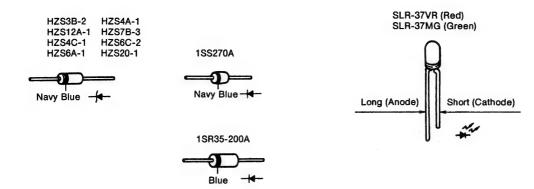


- 1: Emitter
- 2: Base
- 3: Collector

FET 2SK373 (Y)

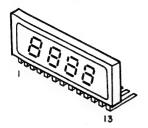


• Diodes (including LED)



• FLD Ass'y (FIP4H5)

Part No.: 3934135006



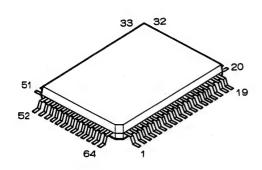


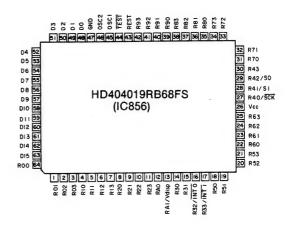
MICROPROCESSOR DOCUMENTATION

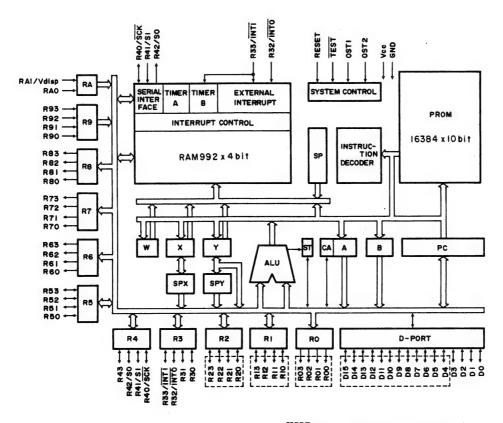
HD404019RB68FS: Part No.2621584107 (CMOS 4-bit single chip microprocessor) (IC856)

Major functions

- Deck control
 - 1. Deck mechanism control use and signal circuits, control output
 - 2. Cuing operation, continuous playback
 - 3. CD synchro operation
 - 4. Auto function operation







● Pin Description

UF!	ii Descripi	IOH		
NO	Pin name	1/0	Signal name	Function
1	R01	0	Т 1	Strobe signal output pin of the LED matrix. (Active high)
2	R02	0	Т 2	Strobe signal output pin of the LED matrix. (Active high)
3	R03	0	Т 3	Strobe signal output pin of the LED matrix. (Active high)
4	R10	0	L. SPEED 1 OUT	Control output pin for slowing down the loading speed of deck 1.
5	R11	0	L. SPEED 2 OUT	Control output pin for slowing down the loading speed of deck 2.
6	R12	I	Q. SENS 1 IN	QUICK SENSE input pin of deck 1. (Active low)
7	R13	I	Q. SENS 2 IN	QUICK SENSE input pin of deck 2. (Active low)
8	R20	0	RESET OUT	When the power is switched on, this pin outputs a high-level signal for 4 seconds after reset start up, then it outputs a low-level signal.
9	R21	0	CROM 2 OUT	An output pin which switches the recording equalizer of deck 2 to chrome. (Active high)
10	R22	0	METAL 2 OUT	An output pin which switches the recording equalizer of deck 2 to metal. (Active high)
11	R23	0	POWER ON/OFF OUT	This pin controls the on/off switching of the power. It is high level when power is on, and low level when power is off.
12	RA0	I	REEL T. 1 IN	Reel pulse input pin of the take-up side (right side) of deck 1.
13	RA1	I	REEL T. 2 IN	Reel pulse input pin of the take-up side (right side) of deck 2. There is a transition to the stop mode when a pulse continues for 2 seconds in the play or record modes, or for 1 second in the fast forward, rewind, cue, or review modes. Note that the 1 second following the start of tape transportation is not detected. The input pulse width is measured and if it falls below the determined value, the tape end display is shown.
14	R30	0	LINE MUTE OUT	Mute output pin of the playback output pins. (Active high) Outputs a low-level signal when deck 1 or deck 2 is in the play, record, record pause, record mute, or dubbing mode, and outputs a high-level signal at other times.
15	R31	I	STAND BY IN	This pin sets the standby mode of the microprocessor. The tape counter value and the directions of timer record and play, as well as other information is backed up by the input of this pin. (Active low)
16	R32	I	SERIAL IN	Serial communications input pin. (Active low)
17	R33	I	50/60 Hz IN	This pin takes in the power frequency of 50 Hz or 60 Hz.
18	R50	0	PLAY SOL 1 OUT	This pin outputs the pulse which drives the solenoid of mechanism 1. (Active high)
19	R51		CPM 1 OUT	This pin outputs the pulse which drives the capstan motor of mechanism 1. (Active high)
20	R52	0	HI-SP 1 OUT	Switching output for speeding up the rotation speed of the capstan motor of mechanism 1 at the time of high-speed dubbing.
21	R53	I	REEL S. 1 IN	Reel pulse input pin of the supply side (left side) of deck 1.
22	R60	0	PLAY 1/2 OUT	This output pin indicates which mechanism is in the play mode. Low level when mechanism 1 is playing. High level when mechanism 2 is playing.
23	R61	I	CROM 1 IN	Tape type detection switch input of mechanism 1. Low level for normal tape and high level for chrome or metal tape.
24	R62	I	CROM 2 IN	Tape type detection switch input of mechanism 2.
25	R63	I	METAL 2 IN	Tape type detection switch input of mechanism 2.
26	Vcc			Power supply input pin. Used for backup.
27	R40	0	OPEN 1 OUT	Output pin for opening the loader of mechanism 1. (Active high)
28	R41	0	OPEN 2 OUT	Output pin for opening the loader of mechanism 2. (Active high)
29	R42	0	CLOSE 1 OUT	Output pin for closing the loader of mechanism 1. (Active high)
30	R43	0	CLOSE 2 OUT	Output pin for closing the loader of mechanism 2. (Active high)
31	R70	0	PLAY SOL 2 OUT	This pin outputs the pulse which drives the solenoid of mechanism 2. (Active high)
32	R72	0	CPM CONT 2 OUT	This pin outputs the pulse which drives the capstan motor of mechanism 2. (Active high)
33	R73	0	HI-SP 2 OUT	Switching output for speeding up the rotation speed of the capstan motor of mechanism 2 at the time of high-speed dubbing.
34	R74	I	REEL S. 2 IN	Reel pulse input pin of the supply side (left side) of deck 2.
35	R80	0	REC 2 OUT	Record mode output pin of deck 1. High level in the record mode.

CASSETTE DECK SECTION

NO	Pin name	1/0	Signal name	Function
36	R81	0	REC MUTE 2 OUT	This output pin controls the muting of the recording amp input of deck 1.
37	R82	0	OSC CONT 2 OUT	This output pin controls the bias oscillation of deck 2.
38	R83	0	HI-SP REC OUT	This output pin is used to switch the time constant of the signal system at the time of high-speed dubbing.
39	R90	I	KR O IN	Key and switch input pin.
40	R91	I	KR 1 IN	Key and switch input pin.
41	R92	I	KR 2 IN	Key and switch input pin.
42	R93	I	KR 3 IN	Key and switch input pin.
43	RESET	I		Reset pin.
44	TEST	I		Connect to Vcc.
45	OSC1	I		System clock oscillation pin. 4 MHz
46	OSC2	0	R 5	System clock oscillation pin.
47	GND			Ground pin.
48	D 0	0	A	Fluorescent tube drive segment and key strobe output.
49	D 1	0	В	Fluorescent tube drive segment and key strobe output.
50	D 2	0	С	Fluorescent tube drive segment and key strobe output.
51	D 3	0	D	Fluorescent tube drive segment and key strobe output.
52	D 4	0	E	Fluorescent tube drive segment and key strobe output.
53	D 5	0	F	Fluorescent tube drive segment and key strobe output.
54	D 6	0	G	Fluorescent tube drive segment and key strobe output.
55	D 7	0	Н	Key strobe output.
56	D 8	0	I	Key strobe output.
57	D 9	0	J	Key strobe output.
58	D10	0	LED 0	Output pin for mode display LED drive.
59	D11	0	LED 1	Output pin for mode display LED drive.
60	D12	0	LED 2	Output pin for mode display LED drive.
61	D13	0	PB EQ OUT	Output for switching the time constant of the playback amp. Low level for 120 μ s and high for 90 μ s.
62	D14	I	MS IN	Input pin of the between track detection signal from the IC used for between $track$ detection. (Active low)
63	D15	0	SERIAL	Input pin for serial communications. (Active low)
64	R00	0	Т 0	Strobe signal output pin of the LED matrix.



Description of key inputs

Item	Key name	Description of function
1	F. PLAY 1,2	Commands the play mode in the forward direction. Commands the cue/revue mode with PLAY+REW/FF, or with FF/REW input during the play mode.
2	R. PLAY 1,2	Commands the play mode in the reverse direction. The transition to the cue/revue mode is the same as with F. PLAY.
3	FF 1,2	Commands fast winding of the tape to the right.
4	REW 1,2	Commands fast winding of the tape to the left.
5	REC/REC PAUSE 2	Commands the record mode. Commands the record pause mode when the deck is switched on from the stop mode. Commands the record mode when switched on simultaneously with PLAY. The "record conditions" must be satisfied.
6	REC/REC MUTE 2	Commands the record mode. Commands the record pause mode when the deck is switched on from the stop mode. Commands the record mute mode when switched on in the record or record pause mode. After 6 seconds of the record mute operation, there is a transition to the record pause mode. When there is key input again after 6 seconds have passed, the record mute mode is continued and there is a transition to the record pause mode when the key goes off.
7	STOP 1,2	Commands the stop mode. This key input will cause a transition to the stop mode, no matter what mode the deck is in. This key takes priority over all keys.
8	NORMAL DUBB	Commands the normal dubbing mode. The condition for reception for both decks 1 and 2 is that they are in the stop mode. CASS LOAD 1 and 2 are high level. ANTI REC FWD 2 is high level.
9	HI-SPEED DUBB	Commands the high-speed dubbing mode. The condition for reception is the same as that NORMAL DUBB.
10	CD SRS	A single touch commands recording synchronized with CD.
11	OPEN/CLOSE 1	This key opens and closes the loader of deck 1.
12	OPEN/CLOSE 2	This key opens and closes the loader of deck 2.
13	COUNTER RESET	This key resets the count value and display of the tape counter to "0000".
14	MEMORY STOP	This key causes the deck to stop when the count value of the tape counter reaches "0000" in the fast forward or rewind mode. Toggle operation.
15	SELECT 1/2	Changes the selection condition of the mechanism. Key input. The counter display also is switched with deck 1 and 2. The counter reset and memory stop functions are also switched accompanying this. Toggle operation. Deck 2 is set as the default.

Note: Key and Switch Input Processing

The key and switch inputs are always acanned and taken in. The minimum input width of the input is set at 30 ms, and a chattering prevention function must be supplied.

Description of switch inputs

Item	Switch name	Description of function
1	REVERSE MODE	Command input switch for whether or not to reverse at the end of the tape during recording and playback (i.e., auto stop and quick sense input).
	REKVERSE	When on, there is reversal at the end of side A, then side B is recorded or played back. See REVERSE MODE.
	CONTINUOUS	When there is no switch input from either REVERSE or CONTINUOUS, the normal mode is set and there is no reversal.
2	TIMER PLAY	After the RESET input when the power is switched on, this input will cause a transition to the play mode from the mechanism and direction which are backed up in RAM. See TIMER PLAY.
3	TIMER REC	After the RESET input when the power is switched on, this input will cause a transition to the record mode from the mechanism and direction which are backed up in RAM. See TIMER REC.
4	QUICK SEL	This input switch takes in the QUICK SENSE input and judges whether or not to perform the reversing operation. Connection is made with a diode. When the diode is shorted, the reversing operation is performed. When the diode is open, the reversing operation is not performed.
5	POWER SEL	This input judges whether or not to perform the AUTO POWER ON/OFF operation. Connection is made with a diode. When the diode is shorted, the operation is performed. When the diode is open, the operation is not performed.
6	LOAD IN 1	This switch input indicates that the loader of deck 1 is closed. When the switch is shorted, the loader is closed. (The reading is high level.) When the switch is open, the loader is not closed.

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DENO-00058 / Druck 10

Item	Switch name	Description of function
7	LOAD IN 2	This switch input indicates that the loader of deck 2 is closed.
8	LOAD OUT 1	This switch input indicates that the loader of deck 1 is open. When the switch is shorted, the loader is closed. (The reading is high level). When the switch is open, the loader is not closed.
9	LOAD OUT 2	This switch input indicates that the loader of deck 2 is open.
10	LOAD SPEED 1	This switch input commands a slowing of the loading speed of deck 1.
11	LOAD SPEED 2	This switch input commands a slowing of the loading speed of deck 2.
12	CASSET LOAD 1	This switch input indicates whether a cassette tape is loaded in mechanism 1. When the switch is shorted, there is a tape. (The reading is high level.) When the switch is open, there is no tape. (The reading is low level.)
13	MODE SW 1	This switch input takes in the mode of mechanism 1. This switch input and the timer manage whether the transition between modes of the mechanism is performed properly.
14	CASSET LOAD 2	This switch input indicates whether a cassette tape is loaded in mechanism 2. When the switch is shorted, there is a tape. (The reading is high level.) When the switch is open, there is no tape. (The reading is low level.)
15	MODE SW 2	This switch input takes in the mode of mechanism 2. This switch input and the timer manage whether the transition between modes of the mechanism is performed properly.
16	ANTI REC F 2	This switch judges whether it is possible to record in the forward direction of deck 2. When the switch is shorted, it is possible. (The reading is high level.) When the switch is open, it is not possible. (The reading is low level.)
17	ANTI REC R 2	This switch judges whether it is possible to record in the reverse direction of deck 2. When the switch is shorted, it is possible. (The reading is high level.) When the switch is open, it is not possible. (The reading is low level.)
18	END SEL	Selection switch for whether or not the tape end indication is shown. Selection is by diode. When the diode is shorted, there is an indication. When the diode is open, there is no indication.

Display

The unit is equipped with the following 2 types of display functions.

- 1. Fluorescent tube tape counter display
- 2. LED mode display

1. Fluorescent Tube Tape Counter Display

The reel pulses of each mechanism are counted and displayed here. A tape end display is shown in the vicinity of the end of the tape. For details, see the section covering the tape counter operation.

- a. Fluorescent tube used: NEC FIP4H5 4 digits, 7 segments
- b. Display timing: Display frequency Hz On time per digit μ s Blanking time per digit μ s
- (A frequency for the display frequency is to be selected so as not to give rise to flickering under fluorescent lighting of 50 Hz and 60 Hz.)

Display Contents

	Digit →	Т 0	T 1	T 2	Т 3
Segment	Port ↓	Thousands digit	Hundreds digit	Tens digit	Ones digit
	A	a	a	a	a
	В	ь	b	b	b
	С	c	с	С	c
	D	d	đ	d	d
	E	e	e	e	e
	F	f	, f	f	f
	G	g	g	g	g
		1			

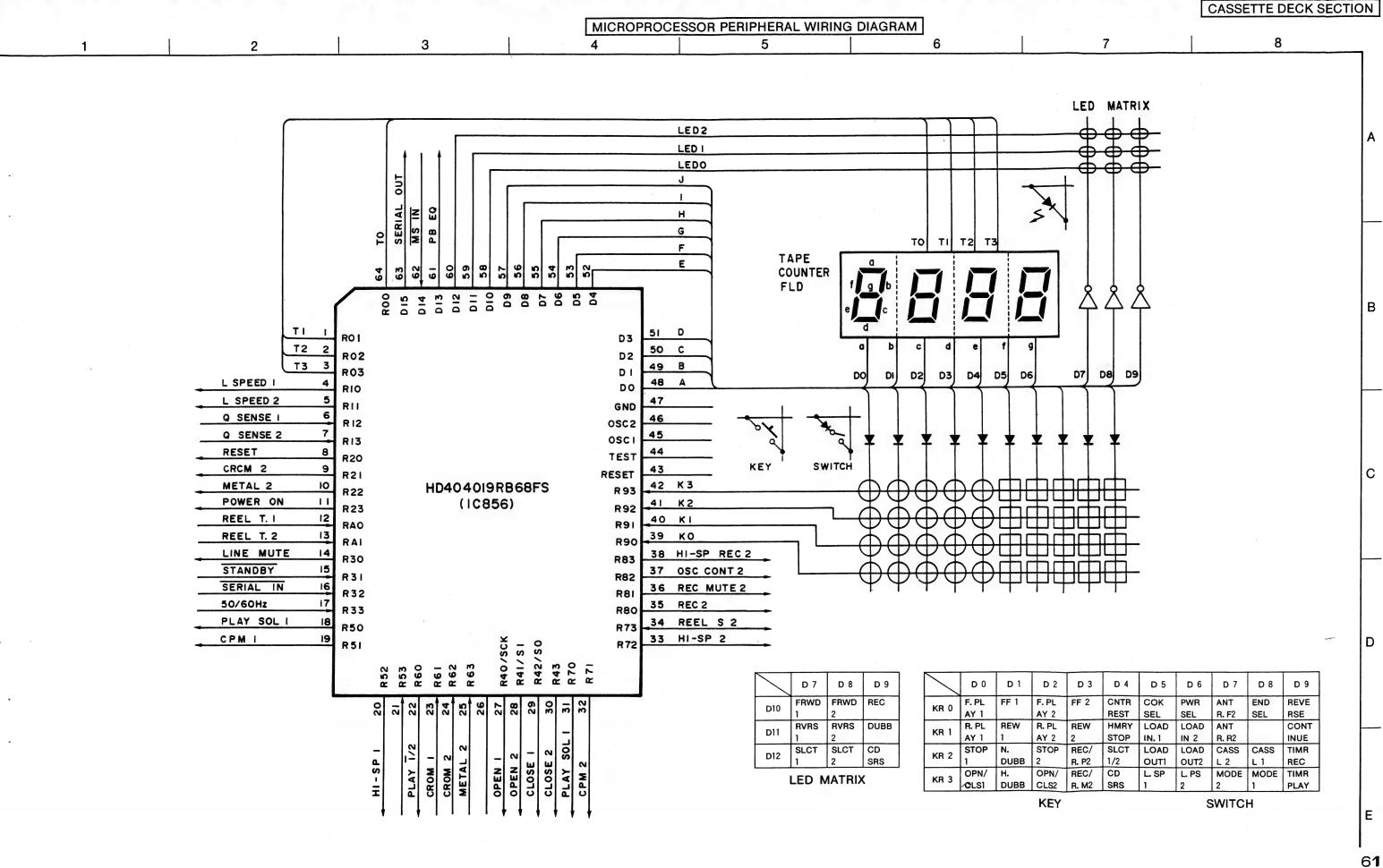
2. LED Mode Display

- (1) The REC LED indicates the REC mode. When the various mechanisms are:
- A. in the record or record pause modes, the display lights up.
- The timing for the lighting is according to the time chart.
- B. in the record mute mode, the display blinks at an interval of 0.75 seconds. (The display-on and display-off periods are each 0.75 seconds.)
- C. The display is off in other modes.
- D. The REC LED is not to go off in the reverse modes.
- (2) DUBBING LED
- A. Blinks during dubbing.

During normal speed dubbing — Blinks at an interval of 0.75 seconds. (Display-on and display-off periods are each 0.75 seconds.) During high-speed dubbing — Blinks at an interval of 0.30 seconds. (Display-on and display-off periods are each 0.30 seconds.)

B. Turns off when the dubbing mode is cancelled.





C8718

CN703

ERASE HEAD

REC/PB HEAD

CB720

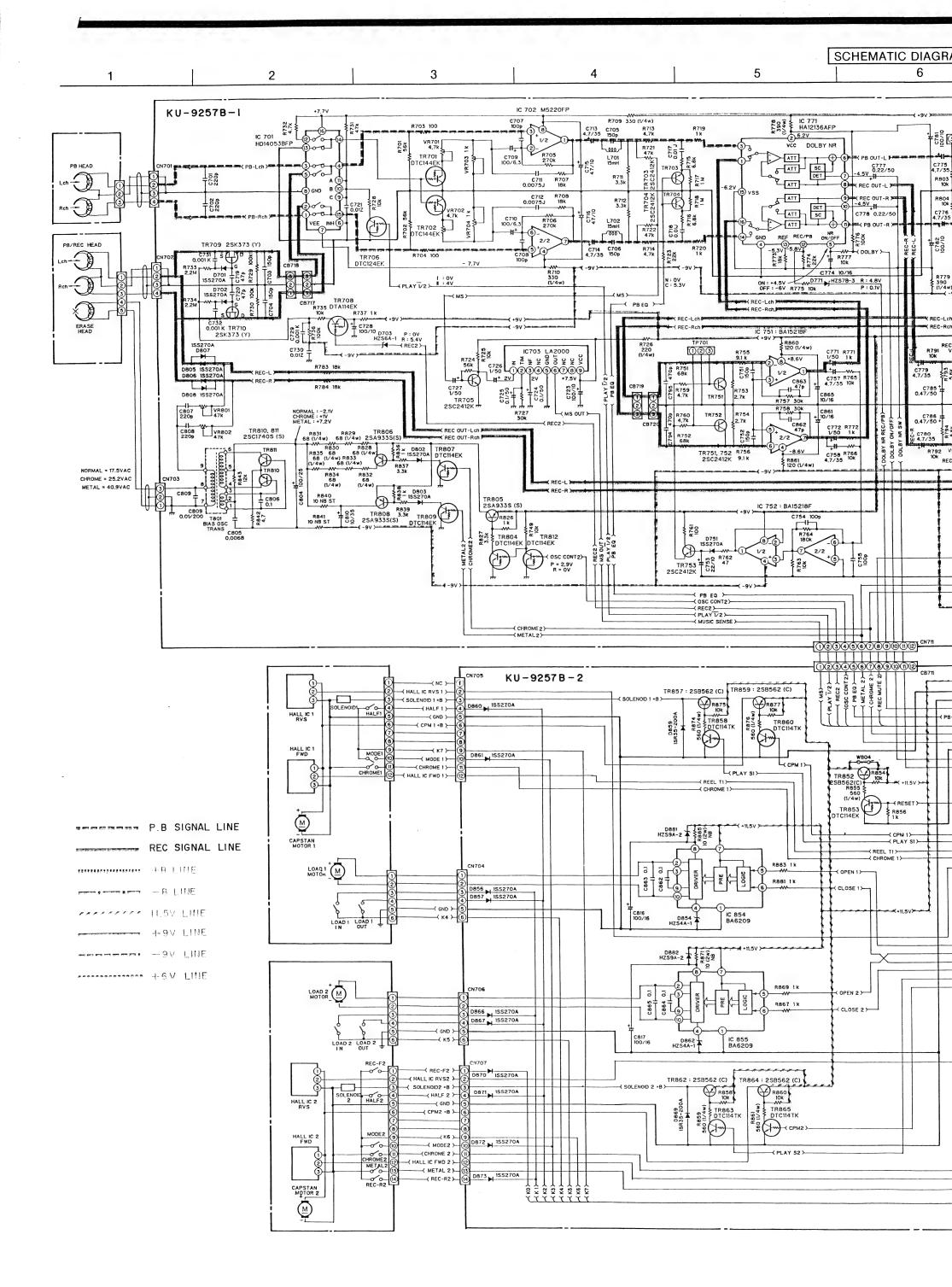
PLAY BACK HEAD

CN701

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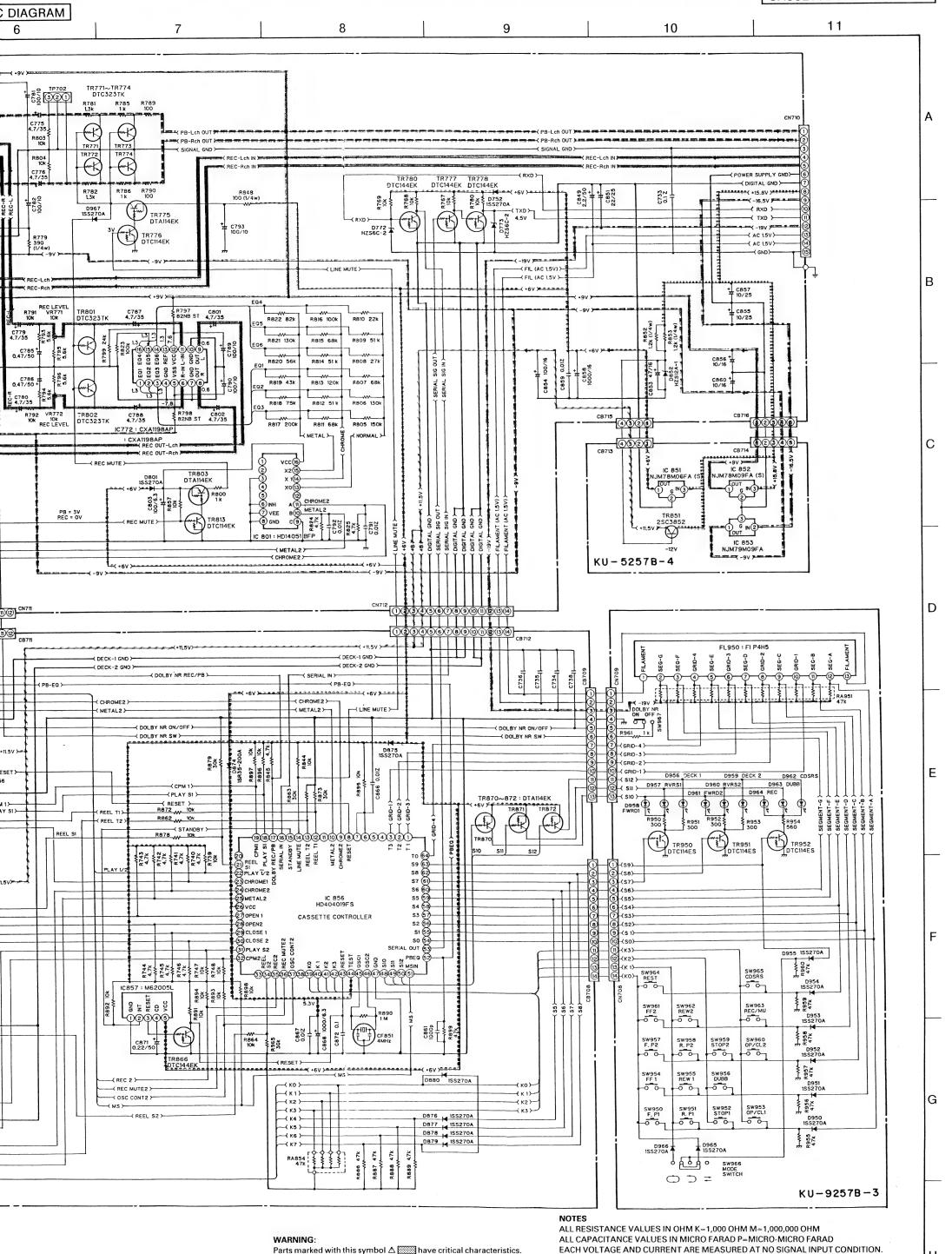
62

KU-9257B-4









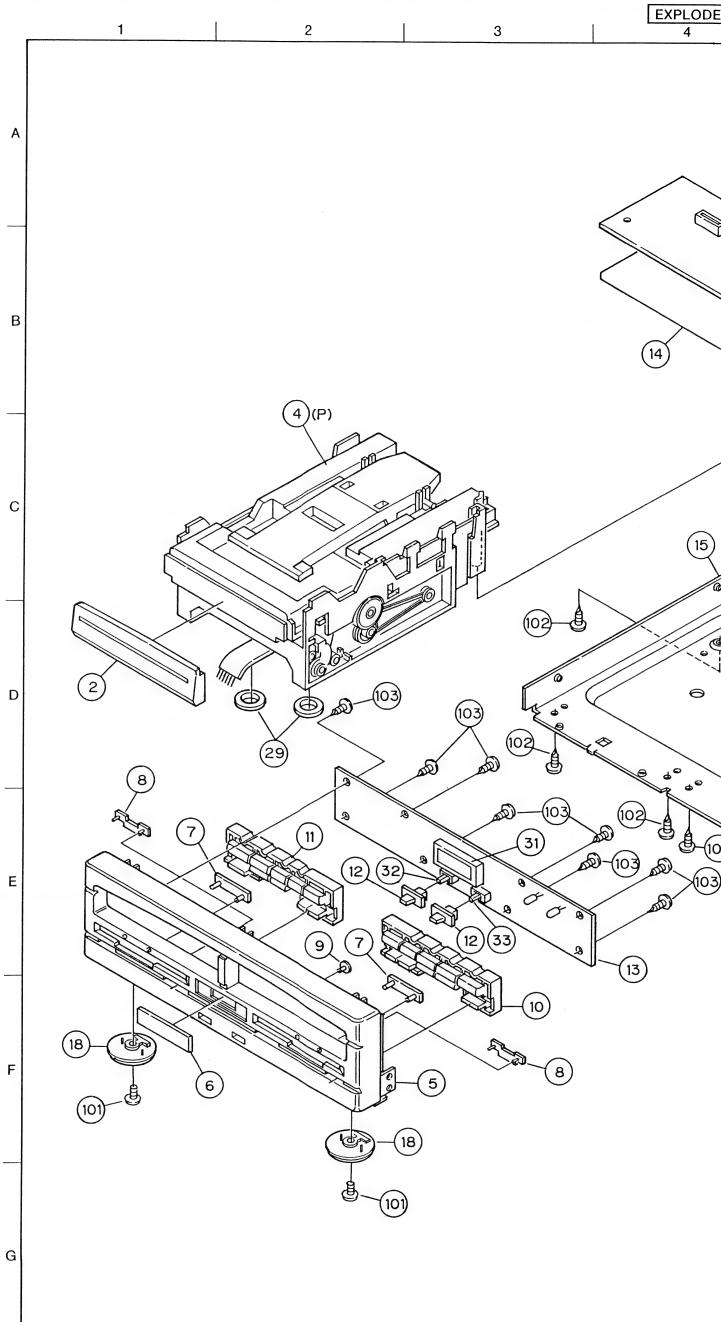
Use ONLY replacement parts recommended by the manifacturer.

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CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

PARTS LIST OF UDR-60 EXPLODED

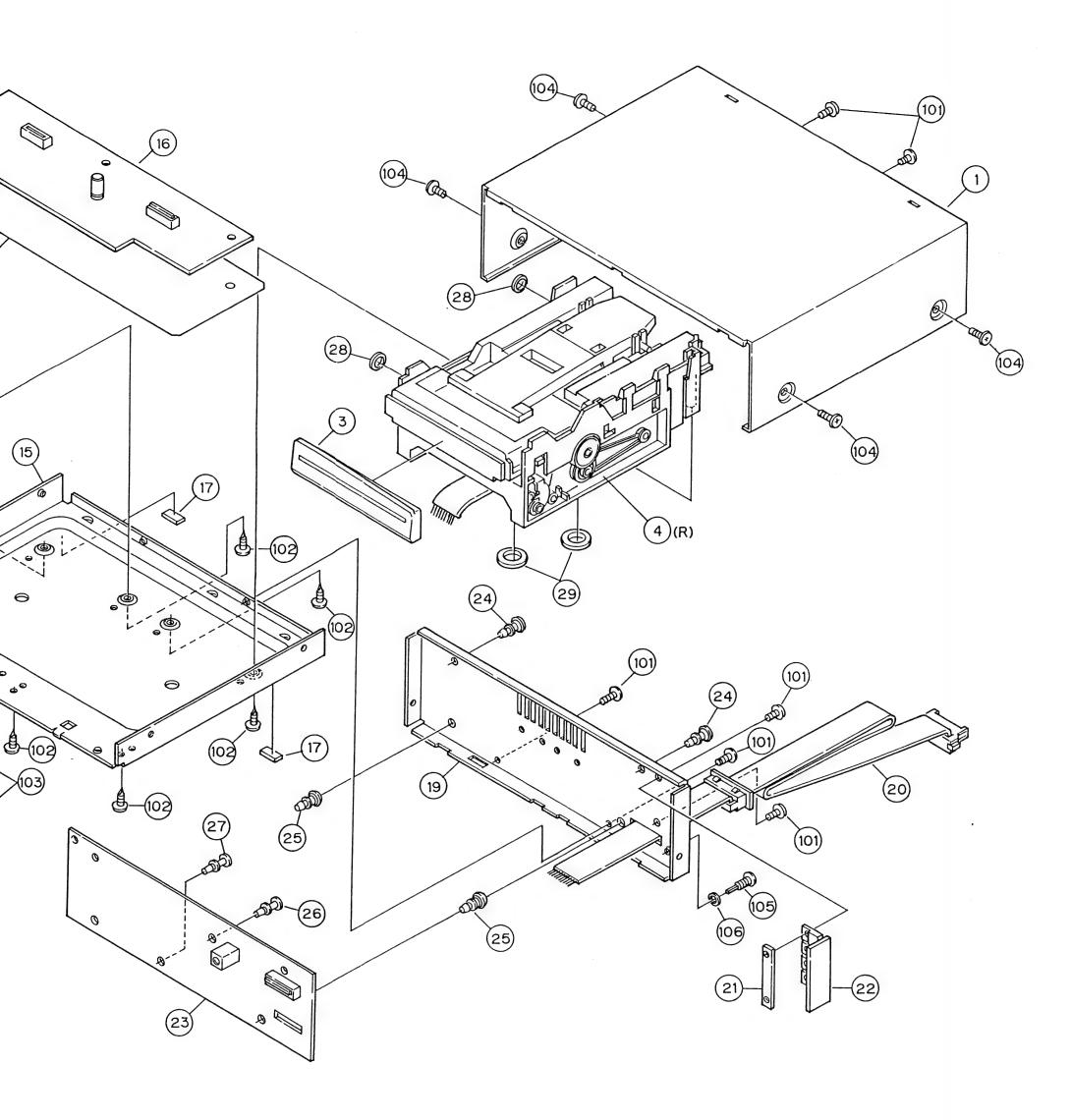
	Ref. No.	F	Part N	0.	Part Name	Remarks	Q'ty			
	1	102	0508	015	Top Cover		1			
	2	146	1362	111	Loader Panel (L)	1	1			
	3	146	1363	110			2			
lacksquare	4	нм	55		Cassette Mecha Unit		15			
	5 146 1361 002 Front Panel				Front Panel		1			
	6	143	0790	002	Window		1			
	7	143	0787	002			2			
	8	1	0788		, ,	1	2			
	9	1	0789		, ,		2			
	10	1	1512				1			
	11		1513		1		1			
	12	1	1514		• • •		2			
•	13	i	9257				1			
_	14	1	0657		' '					
	15	411	1160		_	1	1			
•	16	1	9257				1			
•	17	i	0079				1			
	18	l .	0258				2			
	19	104	1026		Top Cover Loader Panel (L) Loader Panel (R) Cassette Mecha Unit Front Panel Window Lens (A) Lens (B) Lens (C) Push Knob (R) Push Knob (L) Slide Knob Deck Display Unit Insulating Sheet Main Chassis Deck Unit (Digital) Felt Sheet Foot Assy Rear Panel 15P System Conn. Cord BK TR Bracket Deck Unit (Reg-1) Deck Unit (Analog) P.W.B Holder Card Spacer (L=14) SP Washer Spacer — FLD (FIP4H5) Slide Switch U-2381A Slide Switch U-2381A U-2380A IC NJM78M09FA U-2380A Wire Clamp Band					
							1			
	20	1	6332		-					
	21	1	3492				1			
<!--</td--><td>22</td><td>ı</td><td>9257</td><td></td><td colspan="6">Deck Unit (Analog)</td>	22	ı	9257		Deck Unit (Analog)					
<!--</td--><td>23</td><td>i</td><td>9257</td><td></td><td colspan="5">P.W.B Holder H=10</td>	23	i	9257		P.W.B Holder H=10					
•	24	1	2741		P.W.B Holder					
•	25	1	2741		P.W.B Holder Card Spacer (L=10)					
•	26	i	2814							
	27	i	2814		Card Spacer (L=14)					
	28	1	0224		SP Washer		2			
	29	461	0724	002	Spacer		4			
	30		_		_					
	31	393	4135	006	FLD (FIP4H5)	1U-2381A	1			
	32	1	9504		Slide Switch	1U-2381A	1			
	33	212	4423	800	Slide Switch	1U-2381A	1			
*	34	477	0231	024	Washer ϕ 4 (S)		4			
*	35	477	0224	002	SP Washer		2			
*	36	263	0518	009	IC NJM79M09FA	1U-2380A	1			
*	37 ⁻	263	0586	002	IC NJM78M06FA	1U-2380A	1			
*	38	263	0517	000	IC NJM78M09FA	1U-2380A	1			
*	39	445	0033	005	Wire Clamp Band		1			
	SCREWS						•			
	101	473	7002	021	Tapping Screw (S) 3×8	Black	8			
	102	473	7508	017			8			
	103	473	7505	007	., ,		8			
	104					Black	4			
	105	477	0276	018	Earth Screw		1			
	106						1			
		& AC	CESS	ORIE	S (Not included EXPLODED	VIEW)	٠.			
	71						1			
	72					600×600	1			
	73					0000000	1			
	74		0998				1 1			
	75	000	3330		Casmon		1			



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5 6 7 8 9



NOTE FOR PARTS LIST

- Part indicated with the mark "
 " are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "* is not illustrated in the exploded view.

WARNING:

Parts marked with this symbol \triangle have critical characteristics. Use ONLY replacement parts recommended by the manifacturer.

CASSETTE MECHANISM HM-55

HM-55R UNIT PARTS LIST (REC/PB)

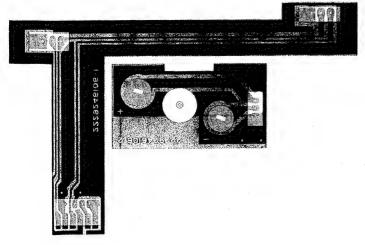
HM-55P UNIT PARTS LIST (PB ONLY)

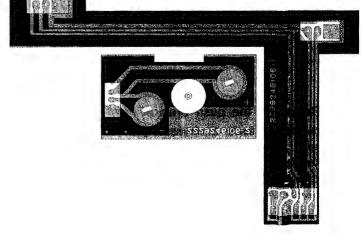
R	ef. No.	Part No.	Part Name	Remarks	Q'ty	R	ef. No.	Part No.	Part Name	Remarks	Q'ty
0	1	411 1163 201	Loading Mecha Ass'y		1	•	1	411 1163 201	Loading Mecha Ass'y		1
	2	411 1156 108	Mecha Base Ass'y		1	•	2	411 1156 108	Mecha Base Ass'y		1
	3	424 0183 000	Pulley Gear		1		3	424 0183 000	Pulley Gear		1
	4	423 0064 003	Belt		1		4	423 0064 003	Belt		1
	5	424 0182 001	Gear		11		5	424 0182 001	Gear		1
	6	475 1119 110	Slit Washer		11		6	475 1119 110	Slit Washer		1
	7	433 0574 202	Push Lever		1		7	433 0574 202	Push Lever		1
•	8	412 3467 102	Push Bracket		1	•	8	412 3467 102	Push Bracket		1
	9	463 0708 008	Lever Spring	•	1		9	463 0708 008	Lever Spring		1
	10	463 0709 007	Push Bracket SP.		1		10	463 0709 007	Push Bracket SP.		1
	11	433 0573 300	Clamper Arm		1		11	433 0573 300	Clamper Arm		1
	12	463 0710 106	Clamper SP.		1		12	463 0710 106	Clamper SP.		1
	13	431 0323 004	Clamper Press		2		13	431 0323 004	Clamper Press		2
	14	463 0707 009	Clamper Press SP.		2		14	463 0707 009	Clamper Press SP.		2
	15	GEN 1919	Loader F. Sub Ass'y		1		15	GEN 1919	Loader F. Sub Ass'y		1
	16	217 0158 000	Loading Motor		1		16	217 0158 000	Loading Motor		1
	17	421 0379 103	Motor Pulley		1		17	421 0379 103			1
	18	338 0151 003	CRF418 C. Mecha REC/PB		1		18	338 0152 002	CRF419 C. Mecha PB		1
	19	412 3468 208	Shield Bracket		1		19	_	_		
	20	412 3518 006	Shield Cover		1		20	412 3518 006	Shield Cover		1
	21	KU- 9246	P.W. Board Ass'y		1.1		21	KU- 9246	P.W. Board Ass'y		1
*	22	203 8334 005	5P EH-3P4P PH Con. Cord		1	*	22	203 4856 008	3P EH-4P PH Con. Cord		1
*	23	203 0240 003	1P Connect Cord		1	*	23	203 0240 003	1P Connect Cord		1
	24	203 0521 007	Earth Wire Ass'y		1		24	_	_		
	25	212 1077 004	Micro Slide SW		2		25	212 1077 004			2
	26	475 1161 003	Washer		1		26	475 1161 003	Washer		1
	27	477 0224 028	SP Washer		2		27	_	_		
	28	_	_			•	28	412 3517 104	Shield Ring		1
	SCREWS					<u> </u>	SCREWS				
	51	473 8044 004	Special Screw		4		51	473 8044 004			4
	52	471 3201 011	Bind Screw 2.6×4		2		52	471 3201 011	Bind Screw 2.6×4		2
	53	473 7002 005	Tapping Screw (P) 3×6		2		53	_			
	54	473 7500 015	Tapping Screw (P) 3×8		6		54	473 7500 015	Tapping Screw (P) 3×8		6

P.W.B UNIT ASS'Y

Component Side







P.W.B. UNIT ASS'Y PARTS LIST

Ref. No.	Part No.			Part Name	Remarks	Q'ty
OTHER GROUP						
		_		(P.W. Board)		(1)
	205	0355	062	6P KR Con Base (L)		1
	209	8000	146	Jumper (L=5)		2
	205	0409	031	3P DIP Socket		2
	002	0042	006	3C R. Wire Ass'y		1
	212	1077	004	Micro Slide Switch		2
	475	1161	003	Washer		1

DISASSEMBLY PROCEDURES

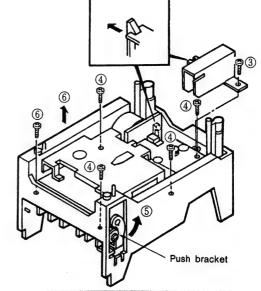
(Follow these procedures in reverse order to reassemble.)

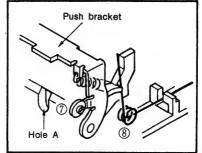
1. Removing the loader frame assembly

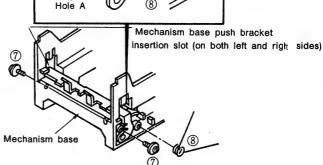
- ① Pull the loader frame assembly out forwards until it stops.
- ② Insert a screwdriver with a narrow tip into the section indicated with the arrow, then lift the hook and pull the loader frame assembly out forwards.

NOTE: When reinserting the loader frame assembly, be careful not to damage the micro slide switch.

Loader frame assembly Lift the hook. Direction of insertion Lower the lever before inserting. Mechanism base







2. Removing the cassette mechanism

- 3 Remove the shield cover screw, then remove the shield cover.
- 4 Remove the five screws fastening the cassette mechanism.
- (5) Pressing the push bracket in the direction of the arrow...
- 6 ...lift the cassette mechanism up and off.

NOTE: The push bracket may be deformed if the cassette mechanism is lifted without pressing the push bracket in the direction of the arrow. (The same is true when reassembling.) A deformed push bracket cannot be used.

After fastening the cassette mechanism with the screws, check that the push bracket moves (rotates) properly.

3. Removing the push bracket

Do this with the loader frame assembly and cassette mechanism removed.

- ? Remove the two special screws.
- 8 Remove the lever spring.
- Remove the push bracket spring using a spring catching rod, etc., through hole A.
- 10 Remove the push bracket.
 - (a) Disconnect first the left then the right push bracket bar ring from the mechanism base's push bracket boss.
 - (b) Bring out first the left then the right side from the mechanism base's push bracket insertion slot.

NOTE: Be careful not to deform the push bracket (do not forcibly disassemble or assemble it). A deformed push bracket cannot be used.

D-60

В

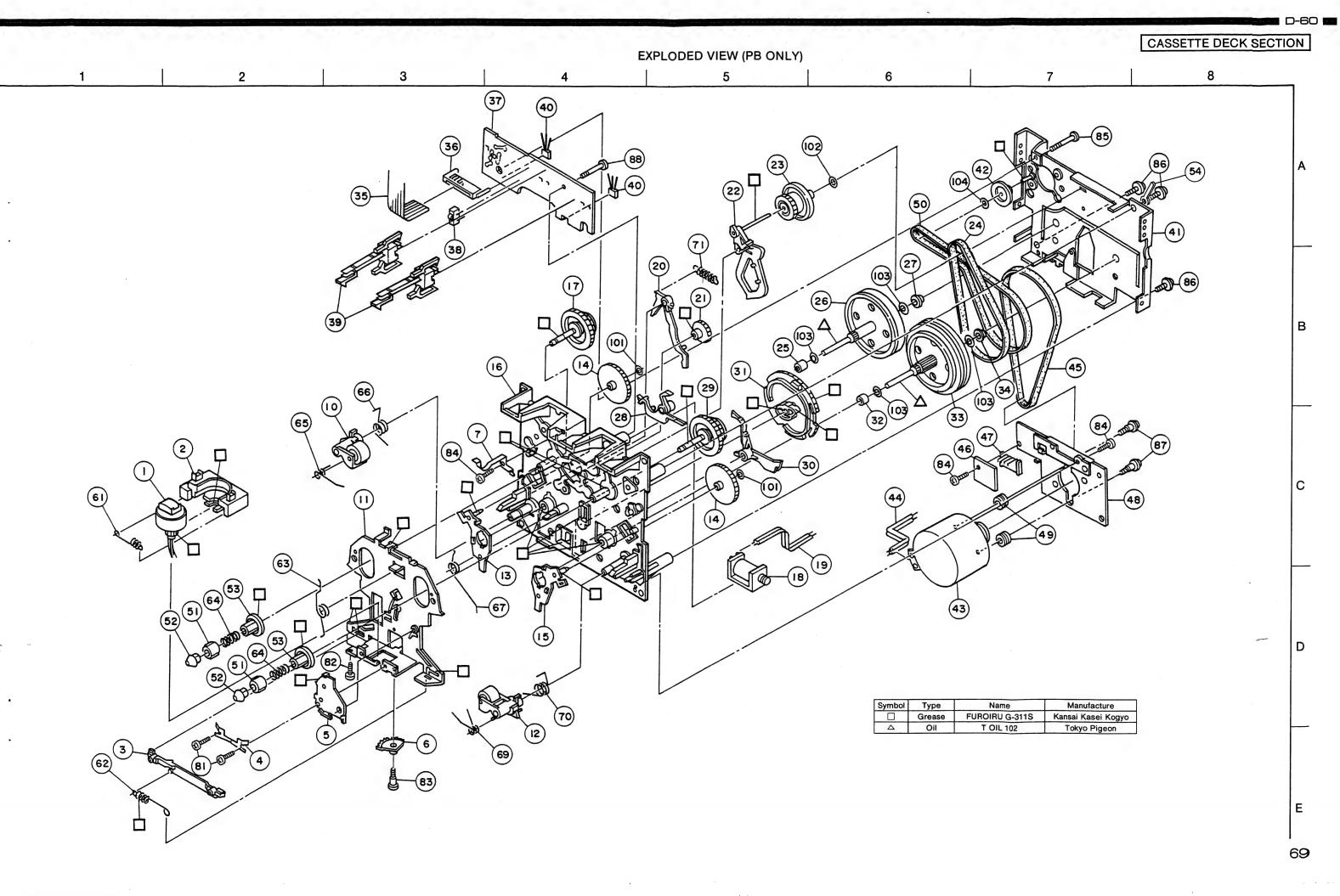
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CASSETTE DECK SECTION

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CASSETTE DECK SECTION

PARTS LIST OF CASSETTE MECHANISM (REC/PB) Parts No. 3380151003

R	lef. No.	P	art No	0.	Part Name	Remarks	Q'ty	Ref. No.	P	art No.	Part Name	Remarks	Q'
*	1	948	0000	100	Ass'y Holder Head	22-093-4054	1	67	948	0004 766	Spring	01-082-4337	1
	2	948	0000	207	Frame Head	22-219-1026	1	68		-	_	01-082-4337	1
	3	948	0000	304	Lever Head	22-259-2012	1	69	948	0004 779	Spring	01-082-4254	1
	4	948	0000	401	Spring Azimuth	16-160-4032	1	70	948	0004 782	Spring	01-082-4261	1
	5	948	0000	508	Ass'y Arm Assist	22-093-4053	1	71	948	0004 795	Spring	01-080-4260	1
	6	948	0000	605	Gear Arm Head	22-239-4020	1						l
	7	948	0000	702	Plate Stopper	22-119-4283	1	81	948	0004 821	Screw (Azmuth)	03-300-4056	2
	8		-		_			82	948	0004 818	Screw	PGSU20A2005	1
	9				_			83	948	0004 706	Screw	03-300-4043	1
	10	948	8000	809	Ass'y Pinch Arm L	22-093-4149	1	84	948	0004 834	Screw	PGSD10A2004	3
	11	948	8000	906	Chassis Head	22-112-2022	1	85	948	0004 847	Screw	PGSD20A2016	1
	12	948	0001	002	Ass'y Pinch Arm R	22-093-4150	1	86	948	0004 850	Screw	PGSL15A2608	3
	13	948	0001	109	Ass'y Arm Play L	22-093-4063	1	87	948	0004 864	Screw	PBE13913	2
	14	948	0001	206	Gear Play	22-222-4042	2	88	948	0004 876	Screw	PGSL10A12608	1
	15	948	0001	303	Ass'y Arm Play R	22-093-4062	1						
	16	948	0001	400	Chassis OS	22-210-1023	1	101	948	0004 902	Washer	PGWP16X040020S	2
	17	948	0001	507	Ass'y Sub Reel L	22-093-3277	1	102		0004 915	Washer	PGWP16X040040	ı
	18		0001		Solenoid	07-W021C	1	103		0004 928	Washer	PGWP26X042013	i
	19		_		Wire	_	1	104		0004 931	Washer	PGWP13X030025S	
	20	948	0001	808	Arm RVS	22-239-3010	1		0.0	0004 001	, vacinor	1 000 100000255	Ι'
	21	948			Gear FF	22-222-4048	1						
	22		0002		Ass'y Arm FR	22-093-4061	1						l
	23	1	0002		Ass'y Pulley FR	22-093-3060	1						
	24	l	0002		Belt FR	02-083-4059	1						ĺ
	25	1	0002		Metal	22-262-4033	1		l				
	26	1	0002		Ass'y Flywheel L	22-262-4033	1						
	27	1	0002			16-262-4031							
	28	1	0002	- 1	Metal		1 1						
	26 29	1	0002		Arm Brake	22-239-3028	1 1						
				- 1	Ass'y Sub Reel R	22-093-4151	1 1						
	30		0002	- 1	Arm Triger	22-268-3008	1						
	31 32	1	0002		Gear Cam	22-221-2090 PBE16449	11						
					Metal		1						
	33	l	0002		Ass'y Flywheel R	22-093-3271							
da.	34	ı	0002	ı	Metal	16-262-4030	1						
*	35	1	0002	- 1	Wire (14P)	16-072-4314	1						
	36	l	0002	- 1	Holder Wire	16-219-2382							
	37	İ	0003	- 1	P.W.Board	22-070-3261							
	38	948	0003		Switch Mode	04-SW150	1						
	39	1	0003	- 1	Switch (Leaf)	04-MTS10045MVJ0	5						
	40	1	0003		Hall IC.	00-LB9051A	2						
	41	l	0003		Bracket FW	22-093-3276	1						
	42		0003	- 4	Pulley	17-223-4639	1						
	43	948	0003	602	Ass'y Moter	22-093-4272	1						
	44		_		Wire	_	1			ļ			
	45		0003		Belt Main	02-083-4093	1						
	46		0003	1	P.W.Board	22-070-4046	1						
*	47	948	0003	903	Housing	00-S5BEH	1						
	48	1	0004		Bracket Motor	22-119-4249	1						
	49	948	0004	106	Rubber Cushion	PBE13360	2						
	50	948	0004	203	Belt	02-083-4094	1						
	51	948	0004	300	Reel A	22-228-3210	2					-	
	52	948	0004	407	Reel B	22-228-3211	2						
	53	948	0004	504	Pulley Reel	22-223-3212	2						
	54		-		Keep Wire	PBE14411	1						
	61	948	0004	708	Spring	01-080-4251	1						
	62		0004	- 1	Spring	01-080-4249	1			}			
	63	948	0004	724	Spring	01-082-4250	1						
	64	948	0004	737	Spring	01-081-4333	2						
	65		0004	- 1	Spring	01-082-4253	1						
	66	948	0004	753	Spring	01-082-4262	1						

PARTS LIST OF CASSETTE MECHANISM (PB ONLY) Part No. 3380152002

R	ef. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
*	1	948 0000 113	Ass'y Holder Head	22-093-4067	1	67	948 0004 766	Spring	01-082-4337	1
	2	948 0000 207	Frame Head	22-219-1026	1	68	_	_		
	3	948 0000 304	Lever Head	22-259-2012	1	69	948 0004 779	Spring	01-082-4254	1
	4	948 0000 401	Spring Azimuth	16-160-4032	1	70	948 0004 782	Spring	01-082-4261	1
	5	948 0000 508	Ass'y Arm Assist	22-093-4053	1	71	948 0004 795	Spring	01-080-4260	1
	6	948 0000 605	Gear Arm Head	22-239-4020	1					
	7	948 0000 702	Plate Stopper	22-119-4283	1	81	948 0004 821	Screw (Azmuth)	03-300-4056	2
	8	_	_			82	948 0004 818	Screw	PGSU20A2005	1
	9	-				83	948 0004 706	Screw	03-300-4043	1
	10	948 0000 809	Ass'y Pinch Arm L	22-093-4149	1	84	948 0004 834	Screw	PGSD10A2004	3
	11	948 0000 906	Chassis Head	22-112-2022	1	85	948 0004 847	Screw	PGSD20A2016	2
	12	948 0001 002	Ass'y Pinch Arm R	22-093-4150	1	86	948 0004 850	Screw	PGSL15A2608	3
	13 ⁻	948 0001 109	Ass'y Arm Play L	22-093-4063	11	87	948 0004 864	Screw	PBE13913	2
	14	948 0001 206	Gear Play	22-222-4042	2	88	948 0004 876	Screw	PGSL10A12608	1
	15	948 0001 303	Ass'y Arm Play R	22-093-4062	1					
	16	948 0001 400	Chassis OS	22-210-1023	1	101	948 0004 902	Washer	PGWP16X040020S	2
	17	948 0001 507	Ass'y Sub Reel L	22-093-3277	1	102	948 0004 915	Washer	PGWP16X040040	1
	18	948 0001 604	Solenoid	07-W021C	1	103	948 0004 928	Washer	PGWP26X042013	4
	19	_	Wire	_	1	104	948 0004 931	Washer	PGWP13X030025S	1 1
	20	948 0001 808	Arm RVS	22-239-3010	1					ıl
	21	948 0001 905	Gear FF	22-222-4048	1					
	22	948 0002 001	Ass'y Arm FR	22-093-4061	1					ıl
	23	948 0002 108	Ass'y Pulley FR	22-093-3060	1					ıl
	24	948 0002 205	Belt FR	02-083-4059	1					ıl
	25	948 0002 302	Metal	22-262-4033	1					ıl
	26	948 0002 409	Ass'y Flywheel L	22-093-3051	1					iΙ
	27	948 0002 315	Metal	16-262-4031	1					ıl
	28	948 0002 506	Arm Brake	22-239-3028	1					ıl
	29	948 0001 510	Ass'y Sub Reel R	22-093-4151	1					
	30	948 0002 603		22-268-3008	1					ı l
	31	948 0002 700	Gear Cam	22-221-2090	1					
	32	948 0002 328	Metal	PBE16449	1					
	33	948 0002 412		22-093-3271	1					. 1
	34	948 0002 331	Metal	16-262-4030	1					
	35	948 0002 810		16-072-4207	1					
	36	948 0002 904	Holder Wire	16-219-2382	1					
	37	948 0003 000	P.W.Board	22-070-3261	1					
	38	948 0003 107	Switch Mode	04-SW150	1					
	39	948 0003 204		04-MTS10045MVJ0	2					
	40		Hall IC. LB9051A	00-LB9051A	2					
	41	948 0003 408		22-093-3276	1					
	42	948 0003 505		17-223-4639	1					
	43	948 0003 602		22-093-4272	$\ \cdot\ $					
	44	_	Wire		$\ \cdot\ $					
	45	948 0003 709	Belt Main	02-083-4093						
	46	948 0003 806			i II				<u></u> .	
	47	948 0003 916		22-070-4046						
	48	948 0004 009		00-S3BEH 22-119-4249	$\left \begin{array}{c} 1 \\ 1 \end{array} \right $					
			Rubber Cushion		1					
	49 50	948 0004 108	Belt	PBE13360	2					
	51	948 0004 203	Reel A	02-083-4094	1					
	52	948 0004 300	Reel B	22-228-3210	2					
	53	948 0004 407	Pulley Reel	22-228-3211	2					
	54	-	Keep Wire	22-223-3212 PBE14411	1					
	61	948 0004 708	Spring	01-080-4251	1					
	62	948 0004 711	Spring	01-080-4249	1					
	63	948 0004 724	Spring	01-082-4250	1					
	64	948 0004 737	Spring	01-081-4333	2					
	65	948 0004 740	Spring	01-082-4253	1					
	66	948 0004 753	_	01-082-4262	1					

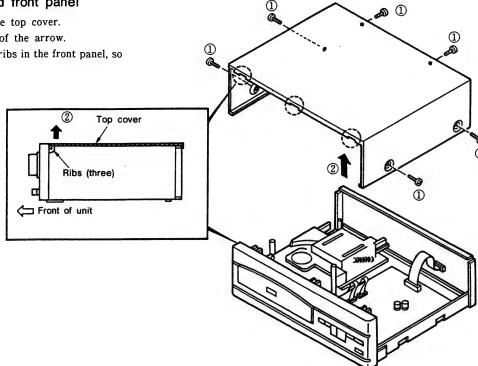
DISASSEMBLY PROCEDURES

(Follow these procedures in reverse order to reassemble.)

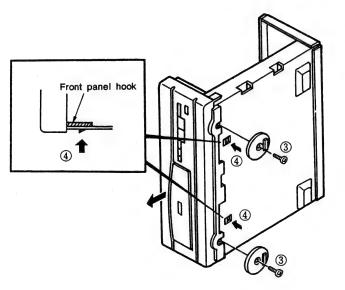
1. Removing the top cover and front panel

- ① Remove the six screws fastening the top cover.
- ② Lift the top cover in the direction of the arrow.

 The top cover is caught in the three ribs in the front panel, so lift it straight upwards.



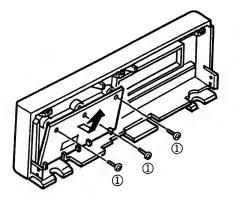
- ③ Set the unit up as shown in the diagram, then remove the two screws fastening the foot assembly.
- 4 Unlatch the hook of the front panel from the chassis and remove the front panel in the direction of the arrow.



2. Removing the printed wiring boards

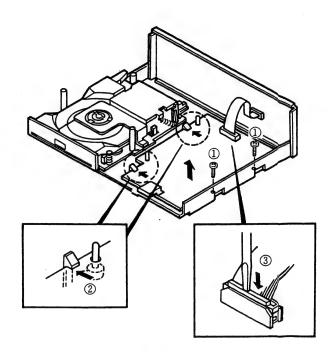
CD SWITCH UNIT KU-9258B-4

① Remove the three screws fastening the CD switch unit, then remove the printed wiring board in the direction arrow.



CD UNIT KU-9258B-3

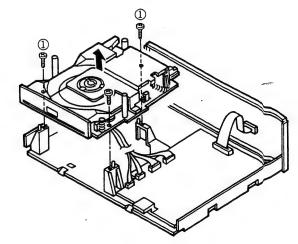
- ① Remove the two screws fastening the CD unit.
- Pressing on the two mechanism holder hooks fastening the CD unit, lift the printed wiring board up in the direction of the arrow.
- 3 Pressing down on the locking section of the connector, disconnect the wires in the direction of the arrow.



CD MECHANISM UNIT

① Remove the three screws fastening the CD mechanism unit.

Disconnect the connectors connecting the mechanism and CD unit.

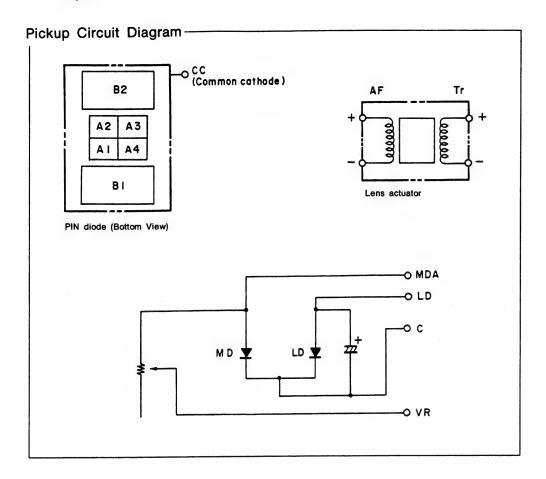


8

72

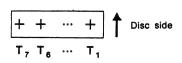
LASER PICKUP

Connections Diagram



1. PD connector

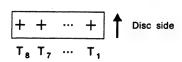
PH pin post 7 pins (Type number B7B-PH-K-S manufactured by Nippon Atchaku Tanshi Hanbai K.K.)



Tn	1	2	3	4	5	6	7
Item	A ₃	A ₄	A ₂	A ₁	СС	Bı	B ₂

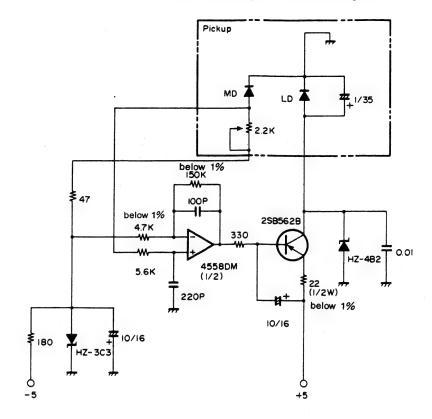
2. LD actuator connector

PH pin post 8 pins (Type number B8B-PH-K-S manufactured by Nippon Atchaku Tanshi Hanbai K.K.)

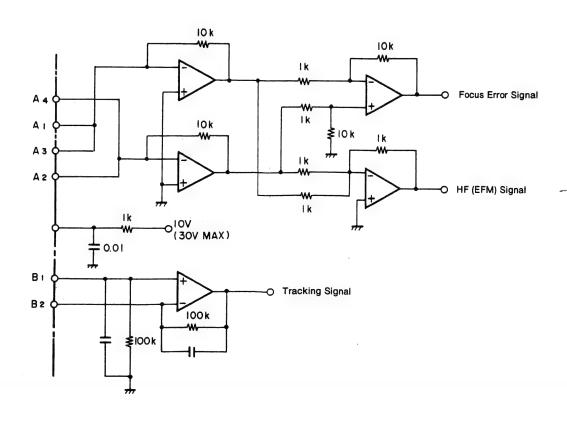


Tn	1	2	3	4	5	6	7	8
Item	С	LD	MDA	VR	TR+	TR-	AF-	AF+

Laser Drive Basic Circuit Diagram



Measurement Circuit Diagram



• Precautions in Use

Read the following carefully before handling.

1. Laser control circuit

The light output of the laser diode (LD) is greatly affected by temperature, so a built-in monitor photodiode should be used in the LD to supplement the light output.

In order to get rid of the dispersion of the monitor photodiode, the semiconductor resistor accompanying the pickup has been adjusted so that the mirror surface level of the HF signal becomes 250 mV when the measurement circuit of this manual and the basic laser drive circuit are used. When designing a new laser drive circuit, note that the life of the laser will be shortened when the mirror level of the HF signal becomes 275 mV with this measuring circuit.

2. Wiring

Be sure to use the specified connectors for the wiring.

Note that the eye pattern may deteriorate when there is a microprocessor or other digital noise source in the vicinity from the photodiode to the harness.

Note that a poor connection related to the LD and actuator connector will cause deterioration of the laser, and so there should not be any looseness of connectors.

Precautions in Handling

This mechanism has been precisely assembled and adjusted at a special factory. It should not be disassembled or adjusted without good reason. Pay attention to the following points related to handling.

1. General items

(1) Storage

Avoid storage in places with high temperatures and high humidity, and in places exposed to a lot of dust.

(2) Handling

The unit has been precisely adjusted and care should be taken so as not to expose the unit to shocks through dropping or careless handling.

2. Semiconductor laser (LD)

(1) Protection of the eyes from the laser

The output of the LD is via an objective lens and is a maximum of 400 μ W, but reaches approximately 1.3×10^4 W/cm₂ in places where there is condensed light. After being condensed by the objective lens, the beam widens and so is all right at a distance of 30 cm or further, but during operation the LD should never be allowed to be viewed directly or through another lens or mirror since this is dangerous.

(2) Destruction by surge currents or static electricity

When a large current flows through the LD, even for a very short period, the strong light which the LD generates itself will advance the deterioration of the LD or destroy it.

Wire a switch into the LD drive circuit or provide another method of preventing the flow of surge currents. Also, when handled without care, the LD can be destroyed instantly by the application of static electricity from the body. Therefore, when handling the LD, be sure to ground your body and ground the measuring instruments, jigs, and tools. It is also desirable to use a grounding mat on the work bench and floor.

3. Lens actuator

(1) The actuator section uses a strong magnetic circuit, so that when magnetic bodies come too close, their characteristics are altered.

Also be careful not to allow foreign matter to enter from the cover gap.

(2) Lens cleaning

Dust or dirt adhering to the objective lens will change the performance.

To clean, blow the dirt away with clean air from an air blower.

4. Handling

Be sure not to contact the lens when handling the LD.

Note that direct contact of the body or other objects with the circuit of the LD board will cause deterioration to occur, so sufficient care should be taken.

SERVICE POINTS

Parts replacement of the tray mechanism (Figs. 1 and 2)

(1) Removal of the tray

Open the tray and use a flat-bladed screwdriver to press the stopper portions of Fig. 1 (one each in the left and right locations) in the direction of the black arrow, then remove in the direction of the white arrow.

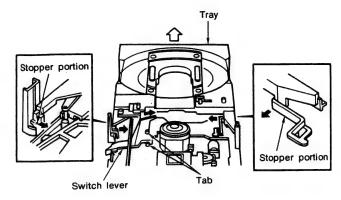


Fig. 1

(2) Mounting of the tray (Figs. 1, 2, and 3)

Rotate the switch lever in the direction of the arrow, set the latches of the tray as illustrated in Fig. 2, then align the rails of the tray in the grooves of the loading plate, and insert so that the pinch lever pins of the switch lever enter into the rack grooves. Push in the tray while pressing the stopper portion inside a little.

(Check that the latches are in the positions illustrated in Fig. 2.)

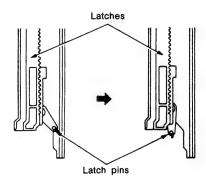
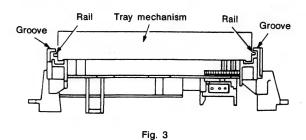
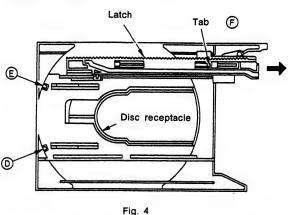


Fig. 2



(3) Replacement of the disc holder (Fig. 4)

With the tray removed, remove tabs $\mathbb D$ and $\mathbb E$ of the disc receptacle of Fig. 4, then lift up and off.



(4) Replacement of the latches (Fig. 4)

Set the latches into the condition of Fig. 4, lift the latch tab (F) up about 1 mm with a flat-bladed screwdriver and remove the rack in the direction of the arrow.

(5) Removal of the loading motor and switches (Fig. 5) Remove the belt from the loading motor, then remove the 3 tabs.

Remove the fixed tabs from the various switches.

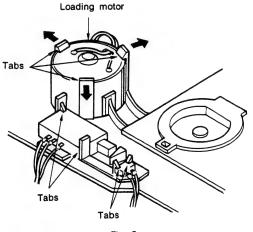


Fig. 5

(6) Replacement of the belt

Replace the belt with the tray removed.

(7) Replacement of the clamper (Fig. 6)

Hook the elongated holes of the clamper onto the C arm, bend the elongated hole sections and attach.

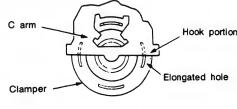
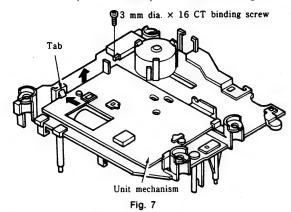


Fig. 6

(8) Replacement of the switch lever (Fig. 1) Remove the tabs of the bottom side (in 2 locations).

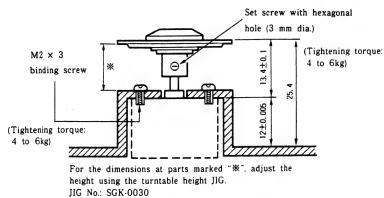
2. Removal of the unit mechanism (Fig. 7)

After removing the loading mechanism, remove the tab of the bottom surface (in one location) as illustrated in Fig. 7.



- (1) To replace the DC motor (D2) and the turntable, follow the procedure below
- 1) Pull the turntable (plastic) off vertically from the unit plate.
- 2) When fitting on the servicing turntable (metal), make a height adjustment. (Fig. 8)

Do not exert excessive force to the shaft of the DC motor (D2) at this time.



3) At the time of service replacement of the DC motor (D2), do not apply excessive force in direction B. When part C of the unit plate is misshapen, it will cause eye pattern deterioration. (Fig. 9)

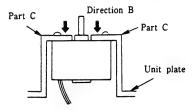
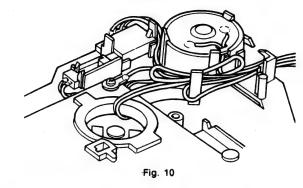


Fig. 9

NOTE:

- Motor replacement or turntable replacement method
 Remove the pressure-fitted turntable, and remove the motor screws.
- Do not reuse a turntable (plastic) that has been removed
 once.

(2) When disassembling and assembling the unit mechanism, assemble with wiring resembling that of Fig. 10



3. Inspection of the objective lens (Fig. 11)

Handle so as not to get dirt or dust on the objective lens of the lens actuator section. Note that when used for a long period, dirt or dust may have adhered to the objective lens. Try cleaning the surface of the objective lens with a dry, clean cotton swab.

If the dirt still does not come off, moisten the cotton swab with a small amount of water and wipe. When doing this, be careful not to get water on any parts other than the lens.

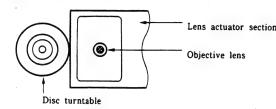


Fig. 11

4. Inspection for laser breakdown

The laser is normally driven with a current of 30 to 80 mA. If this laser drive current value is measured at 120 mA or higher in the circuit, the laser may be thought to be faulty. (The current value is measured by taking the voltage (0.99 to 3.3 V) across both ends of R401, which is 33 ohms).

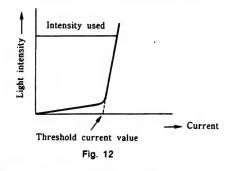
5. Precautions at time of servicing (Fig. 12)

(1) Semiconductor laser

The semiconductor laser is very susceptible to static electricity destruction and surge currents. Be careful never to touch the terminals of the semiconductor laser and the terminals of the flexible board with your hands or a tool.

As illustrated in Fig. 12, the current and light intensity characteristics increase abruptly once the threshold current value is exceeded.

Also note that this threshold current differs a little from laser to laser. In view of this, when replacing the unit mechanism or any work that involves setting the amount of light of the laser, be sure to turn the adjustment control VR401 fully in the counterclockwise direction, and then raise it to the specified value.



(2) Handing the unit mechanism (Fig. 13)

When handling the pickup mechanism and the unit mechanism, use a ground ring such as the one illustrated in Fig. 13. (A ground ring can be constructed using ordinary lead wire.)

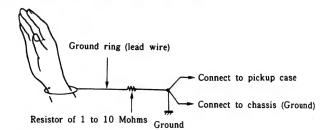


Fig. 13

CD SECTION

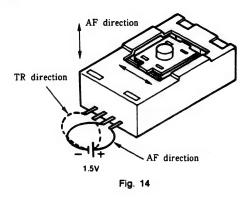
6. Inspection of the actuator (Fig. 14)

Check the resistance value of the actuator coil. It is normal if the values are as follows:

 Focusing coil
 30 ohms

 Tracking coil
 10 ohms

If the coils are open or shorted, the actuator may be thought to be broken. Also, a 1.5 V battery can be used to observe if the lens moves.



ADJUSTMENT METHOD

The microprocessor contained in this unit incorporates a service program which allows a wide variety of service adjustments to be conducted easily by using the operation buttons.

1. Method of starting the service program

Switch on the AC power while simultaneously pressing the PLAY switch and the OPEN/CLOSE switch of the CD unit (UCD-60). After doing this, release your hand from the switches and press the STANDBY (POWER) switch of the receiver unit (UDRA-60). When all power has been switched on there will be a transition to the service program. At this time the display section of the receiver unit (UDRA-60) display tube will indicate "D?".

2. Operation functions when the service program is operating

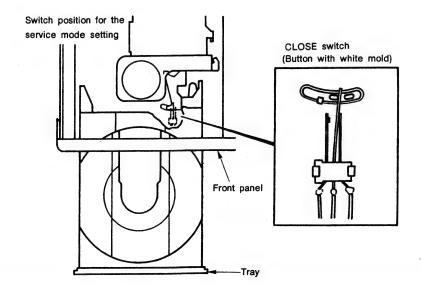
Operation button	Operation function	Description
◆ OPEN/CLOSE	Opens and closes the disc holder.	 Opening and closing takes place when the rotation of the disc has stopped. Other operation buttons are performed when the opening and closing operation is completed.
■ STOP	Stops system operation.	 Track number display becomes []]. Press when an adjustment has been completed or is redone.
▶ PLAY	Operates the focus servo and rotates the disc.	 Press at the time of the tracking offset adjustment. After the operation is completed, the track number display becomes 02.
Ⅱ PAUSE	Operates the focus servo, tracking servo, slide servo, and the spindle servo.	 When the play button has been pressed, the tracking servo and slide servo are operated. After the operation is completed the track number display becomes \$\mathcal{O} \mathcal{S}\$.
Other buttons	Operation is not normal.	 Do not operate buttons other than the above. When a button is operated by mistake, immediately turn the power switch off.

NOTE: Do not use the remote control while the service program is operating.

3. Adjustment method

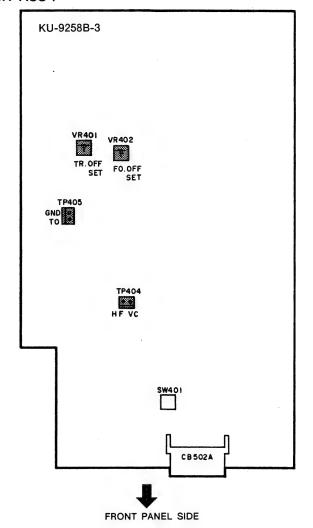
(1) Measuring instruments required in the adjustment

- ① Dual-trace oscilloscope
- ② Oscilloscope



OUTLINE DIAGRAM OF ADJUSTMENT LOCATIONS

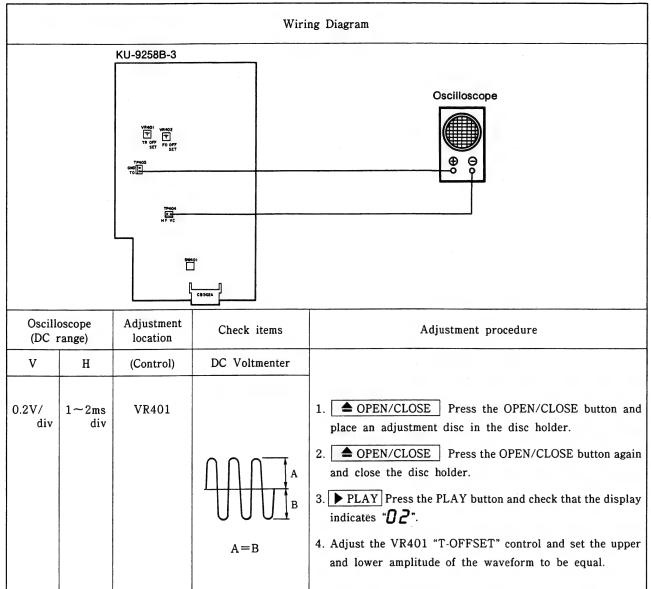
KU-9258B-3 CD UNIT ASS'Y



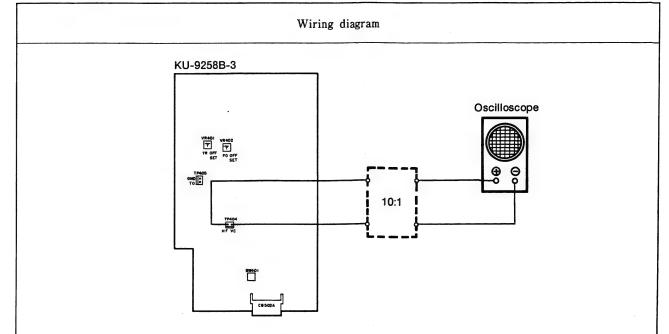
(2) Adjustment preparation

1.	Start the service program	
2.	Set the adjustment control (VR401, 402) to the position illustrated.	VR401 (T-OFFSET) VR402 (F-OFFSET)
3.	Adjustment step	Tracking offset Focus offset

(3) Tracking offset adjustment



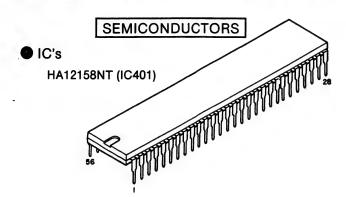
(4) Focus offset Adjustment

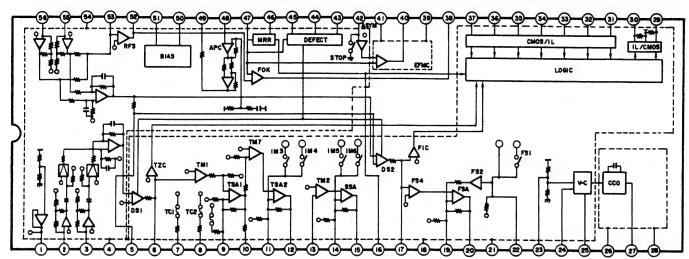


	Oscill	oscope	Adjustment location	Check items				
Ī	V	Н	Control	Oscilloscope				
	50mV/div or 20mV/div	0.2 μ/div or 0.5 μ/div	VR402	EFM waveform Adjust for the minimum pitch. EFM waveform				

Adjustment Procedure

- 1. Press the PAUSE button.
- 2. Check that the display of the track number indicates "D3".
- 3. Adjust VR402 ("F-OFFSET") so that the eye pattern jitter is minimum.

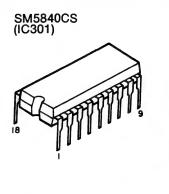


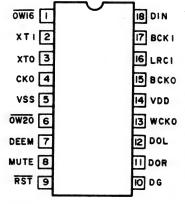


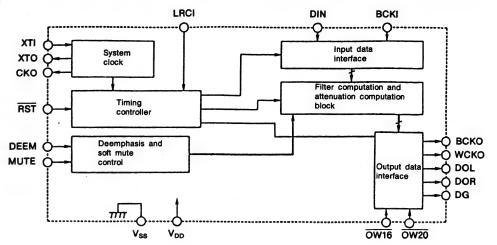
● Pin function table

Pin No.	Symbol	1/0	Function	Pin Na	Symbol	1/0	Function
1	VREF	0	Reference voltage output	29	COUT	0	Track count signal output
2	TR1	I	TR1 (1/V conversion amplifier) input	30	SENS	0	FZC and TZC signal output
3	TR2	I	TR2 (1/V conversion amplifier) input	31	XRST	I	Reset signal output
4	PG	GND	Preamplifier block ground	32	DIRC	I	Direct control signal output
5	FH	0	Focus error hold signal output	33	XLT	I	Data transfer signal input
6	TE	I/O	Track error signal output, TMI input	34	DATA	1	Data signal input
7	TG1	I	TG1 switch	35	CLK	I	Data sync clock input
8	TG2	I	TG2 switch	36	LMSW	I	Limit switch input
9	TS1⊖	I	TSA1 ⊖ input	37	LDSW	ı	Laser switch input
10	TS10	0	TSA1 output	38	FOK	0	FOK comparator output
11	TS2⊝	I	TSA2 ⊖ input	39	GEFM	GND	EFM comparator ground
12	TS20	0	TSA2 output	40	EFMC	0	EFM comparator output
13	TM2	I	TM2 input	41	VEFM	Vcc	EFM comparator Vcc
14	SS⊝	I	SSA ⊖ input	42	DSLC	I	Data slice level control input
15	SSO	0	SSA output	43	DFIN	I	Defect comparator input
16	MIRR	0	Mirror comparator output	44	DFO	0	Defect signal output
17	FE	I/O	Focus error signal output, FS4 input	45	DFH	0	Defect hold signal output
18	SG	GND	Servo block ground	46	MIRH	0	Error hold signal output
19	FS⊖	I	SSA ⊖ input	47	EFMI	I	EFM signal output
20	FSO	0	FSA input	48	MD	Î	APC amplifier input
21	SVCC	Vcc	Servo block Vcc	49	LD	0	APC amplifier output
22	FUD	0	Focus up/down voltage output	50	BYPS	0	Capacitor connection pin for ripple filter
23	VCR	I/O	VCO reference voltage	51	ISET	0	Reference current setting
24	PDIN	I	VCO control voltage input	52	RFO	0	RFS output
25	FRA	0	VCO free-run frequency setting	53	RF⊝	I	RFS ⊖ input
26	VVcc	Vcc	VCO Vcc	54	PVcc	Vcc	Pre-block Vcc
27	VCO	0	VCO output	55	RF1	I	RF1 (I/V conversion block) input
28	VGND	GND	VCO ground	56	RF2	I	RF2 (I/V conversion block) input







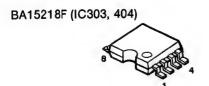


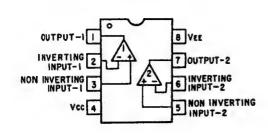
● SM5840CS Pin Description

Pin number	-	l									
DIP	Pin name	i/o	70 Function								
						ŌW20					
			Selection pin 1 for number of output bits	Settin	g	Н	L				
1	OW16	ip	(NOTE) NS-ON: Noise shaper on NS-OFF: Noise shaper off	OW16	Н	18bit output (NS-ON)	20bit output (NS-ON)				
·				OWIG	L	16bit output (NS-ON)	18bit output (NS-ON)				
2	XTI	i	Oscillator input pin								
3	XTO	0	Oscillator input pin								
4	СКО	0	Oscillator output clock (Frequency is the s	ame as XT	I)						
5	Vss	_	Ground pin								
	(N.C)										
	(N.C)										
6	OW20	ip	Selection pin 2 for number of output bits (When $\overline{OW20}$ is low level : 18 bits or (NOTE) See the column of $\overline{OW16}$. (When $\overline{OW20}$ is high level : 18 bits or								
7	DEEM	ip	Deemphasis signal input (When DEM is low level : Deemphasis is off (When DEM is high level : Deemphasis is on								
8	MUTE	ip	Mute signal input			s low level : Soft r s high level : Soft					
9	RST	ip	System reset (Initialization)								
10	DG	0	Deglitch output								
11	DOR	0	Right channel data output								
12	DOL	0	Left channel data output				*************				
13	WCKO	0	Output word clock								
14	V_{DD}	-	Supply pin (5 V : Standard)								
	(N.C)										
	(N.C)										
15	ВСКО	0	Output bit clock								
16	LRCI	ip	Clock of the input data sample rate (fs)								
17	BCKI	ip	Input bit clock	-							
18	DIN	ip	Input data								

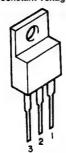
 $i: Input \ pin \qquad ip: Input \ pin \ with \ pull-up \ resistor \qquad o: Output \ pin$

20 CHRIPPING 10



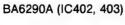


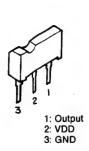
NJM78M05FA (IC306) (Three-terminal positive constant voltage power supply)

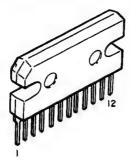


1: Output 2: GND 3: Input

MN1280S (IC502)

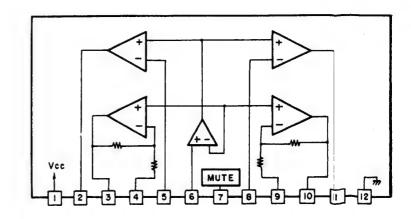






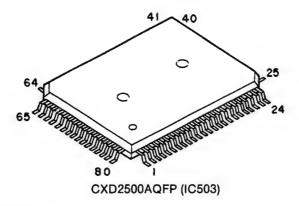
● LC78820M Pin Description

Pin No.	Name	Description of Function/Operation
1	CH10UT	Channel 1 output pin. (Left channel)
2	VrefH1	High-level reference voltage input pin 1.
3	VrefH2	High-level reference voltage input pin 2. See (3) for example of applicable circuit.
4	VDD	+5 V supply pin.
5	WCLK	Word clock input pin. Produces the internal signal which latches the digital audio data, (DATAL and DATAR).
6	DATAL	Digital audio data input pin (left channel). Input as bit serial from the MSB side. Data is in the form of 2s compliment.
7	DATAR	Digital audio data input pin (right channel). Input as bit serial from the MSB side. Data is in the form of 2s compliment.
8	BCLK	Bit clock input pin. This clock is used for reading the digital audio data into the LSI in bit serial.
9	SYSCLK	System clock input pin. This is the main clock used for operating the LSI. This pin becomes the interface switching pin depending on the mode, (either mode 1 or 2). (See the timing chart.)
10	VDD	+5 V supply pin.
11	TSTOUT	Test output pin. It should normally be left open.
12	TST1	Test input pin. It should normally be connected to GND.
13 14	MODE1 MODE2	Interface switching pins. See the timing chart.
15	GND	Ground pin.
16	VrefL1	Low-level reference voltage input pin 1.
17	GND	Ground pin.
18	VrefL2	Low-level reference voltage input pin 2. See (3) for example of applicable circuit.
19	NC	No connection.
20	CH2OUT	Channel 2 output pin. (Right channel)



ICP-N15 (IC304, 305) IC Protector

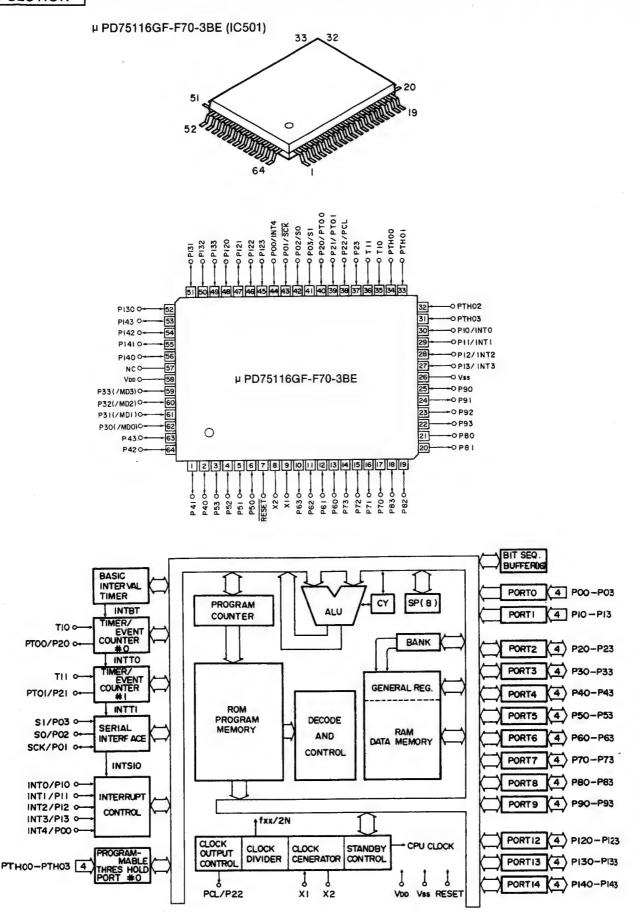




● CXD2500AQFP Pin Function Table

Pin no.	Pin symbol	1/0		Pin description
1	FOK	1		Focus OK input pin. Used in SENS output and the servo auto sequencer.
2	FSW	0	Z,0	Output filter switching output of the spindle motor.
3	MON	0	1,0	On-off control output of the spindle motor.
4	MDP	0	1,Z,0	Servo control of the spindle motor.
5	MDS	0	1,Z,0	Servo control of the spindle motor.
6	LOCK	0	1,0	Samples GFS at 460 Hz. When GFS is "H", H is output. L is output when there is "L", 8 times in succession.
7	NC	-	_	
8	VC00	0	1,0	Oscillation circuit output for analog EFM PLL.
9	VCOI	I		Oscillation circuit output for analog EFM PLL. flock=8.6436 MHz.
10	TEST	I		Test pin, always grounded.
11	PDO	0	1,Z,0	For charge pump used with analog EFM PLL.
12	Vss			Ground
13	NC	_		
14	NC	_		
15	NC	_		
16	VPCO	0	1,Z,0	PLL charge pump output used for vari-pitch.
17	VCKI	0		Clock input fcenter from the external VCO for varipitch equals 16.9344 MHz.
18	FILO	0	Analog	Filter output (slave = digital PLL) for master PLL.
19	FILI	I		Filter input for master PLL.
20	PC0	0	1,Z,0	Charge pump output for master PLL.
21	AVss			Analog ground.
22	CLTV	. I		VCO control voltage input for master.
23	AVDD			Analog supply (+5 V)
24	RF	I		EFM signal input
25	TEST2	I		Grounded
26	TEST3	I		Grounded
27	ASYO	0	1,0	EFM full-swing output. ($L = Vss$, $H = V_{DD}$)
28	TEST4	I		Grounded
29	NC		_	
30	PSSL	I		Switching input for the audio data output mode. Serial output with "L" and parallel output with "H".
31	WDCK	0	1,0	D/A interface for 48-bit slot. Word clock f = 2Fs.
32	LRCK	0	1,0	D/A interface for 48-bit slot. LR clock $f = Fs$.
33	VDD			Supply (+5 V)

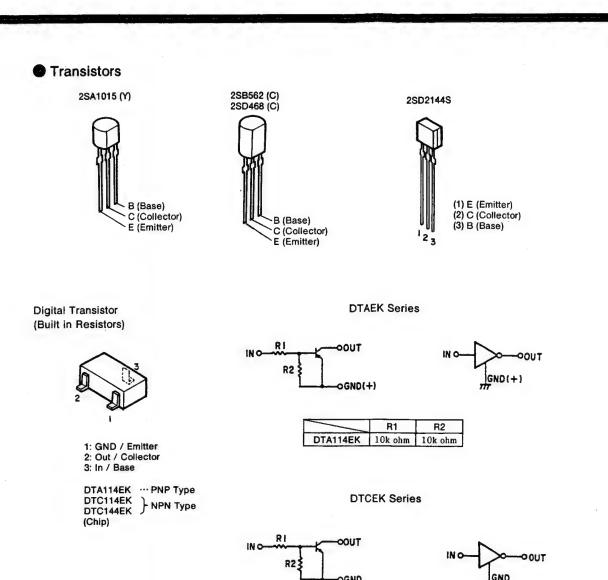
Pin no.	Pin symbol	1/	0	Pin description
34	DA16	0	1,0	DA16 (MSB) output when PSSL = 1. Serial data of the 48-bit slot when PSSL = 0. (2s' COMP, MSB first.)
- 35	DA15	0	1,0	DA15 output when PSSL = 1. Bit clock of the 48-bit slot when PSSL = 0.
36	DA14	0	1,0	DA14 output when PSSL = 1. Serial data of the 64-bit slot when PSSL = 0. (2s' COMP, LSB first.)
37	DA13	0	1,0	DA13 output when PSSL = 1. Bit clock of the 64-bit slot when PSSL = 0.
38	DA12	0 1,0		DA12 output when PSSL = 1. LR clock of the 64-bit slot when PSSL = 0.
39	DA11	0	1,0	DA11 output when PSSL = 1. GTOP output when PSSL = 0.
40	DA10	0	1,0	DA10 output when PSSL = 1. XUGF output when PSSL = 0.
41	DA09	0	1,0	DA09 output when PSSL = 1. XPLCK output when PSSL = 0.
42	DA08	0	1,0	DA08 output when PSSL = 1. GFS output when PSSL = 0.
43	DA07	0	1,0	DA07 output when PSSL = 1. RFCK output when PSSL = 0.
44	DA06	0	1,0	DA06 output when PSSL = 1. C2P0 output when PSSL = 0.
45	DA05	0	1,0	DA05 output when PSSL = 1. XRAOF output when PSSL = 0.
46	DA04	0	1,0	DA04 output when PSSL = 1. MNT3 output when PSSL = 0.
47	DA03	0	1,0	DA03 output when PSSL = 1. MNT2 output when PSSL = 0.
48	DA02	0	1,0	DA02 output when PSSL = 1. MNT1 output when PSSL = 0.
49	DA01	0	1,0	DA01 output when PSSL = 1. MNT0 output when PSSL = 0.
50	APTR	0	1,0	Control output for aperture correction. "H" with Rch.
51	APTL	0	1,0	Control output for aperture correction. "H" with Lch.
52	Vss		1,0	Ground
53	XTAI	I		16.9344 MHz x'tal oscillator circuit input. Or 33.8688 MHz input.
54	XTAO	0	1,0	16.9344 MHz x'tal oscillator circuit input.
55	XTSL	I	1,0	X'tal selection input pin. "L" when the x'tal is 16.9344 MHz and "H" when the x'tal is 33.8688 MHz.
56	FSTT	0	1.0	2/3 frequency division output of pins 53 and 54. Does not change with vari-pitch.
57	C4M	0	1,0	4.2336 MHz output. Changes simultaneously when varypitch is applied.
58	C16M	0	1.0	16.9344 MHz output. Changes simultaneously when varypitch is applied.
59	MD2	I	1,0	Digital-Out on/off control. H when on and L when off.
60	DOUT	0	1.0	Digital-out output pin.
61	EMPH	0	1,0	When the playback disc has emphasis, "H" is output. "L" is output when there is no emphasis.
62	WFCK	0	1,0	WFCK (Write Frame Clock) output.
63				"H" output when either sub code sync SO or S1 is detected.
-	SCOR	0	1,0	
64	SBSO		1,0	Sub P through W serial output.
65	EXCK	I	1.0	Clock input for SBSO read-out use.
66	SQSO	0	1,0	SubQ 80 bit and PCM peak level data 16-bit output.
67	SQCK	I		Clock input for SQSO read-out use.
68	MUTE		170	Mute L is cancelled with H.
69	SENS		1,Z,0	SENS output. Output to CPU.
70	XRST	I		System set. Reset with "L".
71	DATA	I		Serial data input from CPU.
72	XLAT	I	L	Latch input from CPU. Latches serial data on the fall.
73	VDD			Supply (+5 V)
74	CLOK	I		Serial data transfer clock input from CPU.
75	SEIN	I		Sense input from SSP.
76	CNIN	0		Count signal input of number of track jumps.
77	DATO	0	1,0	Serial data output to SSP.
78	XLTO	0	1,0	Serial data latch output to SSP. Latches on the fall.
79	CLKO	0	1,0	Serial data transfer clock output to SSP.
80	MIRR	I		Mirror signal input. Used in jumps of 128 tracks or more with an auto sequencer.



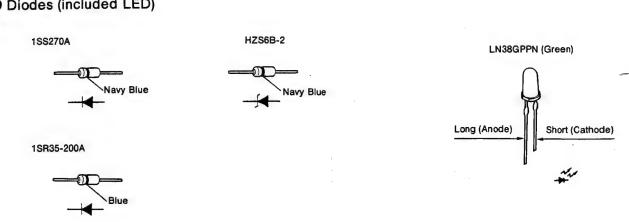
● IC Pin Description

No.	Part name	Function name	Function	1/0	1	Α
1	P41	POWER ON/OFF OUT	Output that controls power on/off switching.	0	Н	L
2	P40	DSP RESET	Reset signal output for DSP.	0	L	Н
3	P53	DIGITAL OFF OUT	Output that controls digital on/off switching.	0	L	H
4	P52	STANDBY OUT	Output that controls power on/off switching.	0	L	Н
5	P51	KS9	Key scan.	0	L	Н
6	P50	KS8	Key scan.	0	L	H
7	RESET			I		
8	X2			0		
9	X1			I		
10	P63	KS7	Key scan.	0	L	H
11	P62	KS6	Key scan.	0	L	Н
12	P61	KS5	Key scan.	0	L	H
13	P60	KS4	Key scan.	0	L	Н
14	P73	KS3	Key scan.	0	L	Н
15	P72	KS2	Key scan.	0	L	Н
16	P71	KS1	Key scan.	0	L	Н
17	P70	KS0	Key scan.	0	L	Н
18	P83	NC		0		
19	P82	NC		0		
20	P81	NC		0		
21	P80	PLAY	Outputs a high-level signal during play mode.	0	L	Н
22	P93	INITIAL	Test pin.	0	_	
23	P92	EDIT	Test pin.	0	-	
24	P91	SEARCH	Test pin.	0	_	
25	P90	PDOUT	Digital output control pin.	0	_	
26	VSS					
27	P13/INT3	50/60 IN	Commercial power supply pulse input pin.	I	Н	_
28	P12/INT2	PGFS	Revolution synchronous signal input from DSP.	I	L	Н
29	P11/INT1	PSCOR	Sub-code synchronous signal input.	I	L	_
30	P10/INTO	SERIAL SIG IN	Auto function input.	I	Н	T -
31	PTH03	KR1	Key return.	I	L	Н
32	PTH02	KR2	Key return.	I	L	Н
33	PTH01	KR3	Key return.	ı	L	Н
34	PTH00	KR4	Key return.	I	L	H
35	TIO	PSENSE	Servo condition detection signal input.	I	Н	1 =
36	TII	RESET IN	Pin for reset detection.	I	Н	_
37	P23	DATA	Servo control signal and data output for D and F.	0	Н	_
38	P22/PCL	XLT	Servo control signal latch output.	0	Н	LF
39	P21/PT01	CLK	Servo control signal and clock output for D and F.	0	Н	-
40	P20/PT00	PLASER	Laser on/off control output.	0	Н	L
41	P03/SI	PSUBQ	Sub-code data input.	I	Н	_
42	P02/SO	NC	1000	0		\vdash
43	P01/SCK	PSQCK	Clock output for sub-code reading.	0	Н	_
44	POO/INT4	SCI ENABLE	Enable pin for display data reception.	I	Н	-
45	P123	LATCH	Latch output for D and F.	0	Н	LF
46	P123	A.MUTE	Audio mute output.	0	Н	Н
47	P121	EMPHA	Signal output with emphasis control.	ō	Н	L
48	P120	PDIRC	Servo control signal output.	0	Н	LF
49	P133	PMVCL	Loader drive signal.	0	Н	L
50	P133	PMVOP	Loader drive signal.	ō	Н	L
51	P132	PDMUT	Mute output for the LSI.	0	Н	Н
		SERIAL SIG OUT	Auto function output.	0	Н	-
52	P130	PFOK	Focus OK signal output.	I	L	Н
53	P143	PSWOPN	Loader open position detection.	I	Н	L
54	P142	PSWCLS	Loader open position detection.	1	L	L
55	P141	PSWPMD	Pickup inner track position detection.	1	<u> </u>	L
56	P140	LOWLMD	No connection.	+		-
57	NC	VDD		+		+-
58	VDD	VDD	Connect to 5V.	Y	Н	+-
59	P33/MD3	SI A P.SEL IN	Data input pin for display data reception.	I		-
60	P32/MD2	A.P.SEL IN	Selects the auto power on/off function.	_	-	-
61	P31/MD1	SCK	Clock output pin for display data transmission.	I	H	1
62	P30/MD0	CD ON/OFF	Digital on/off control input.	I	L	H
63	P43	NC		0		-
64	P42 .	SO	Data output pin for display data transmission.	0	H	-

I = Initial, A = Active

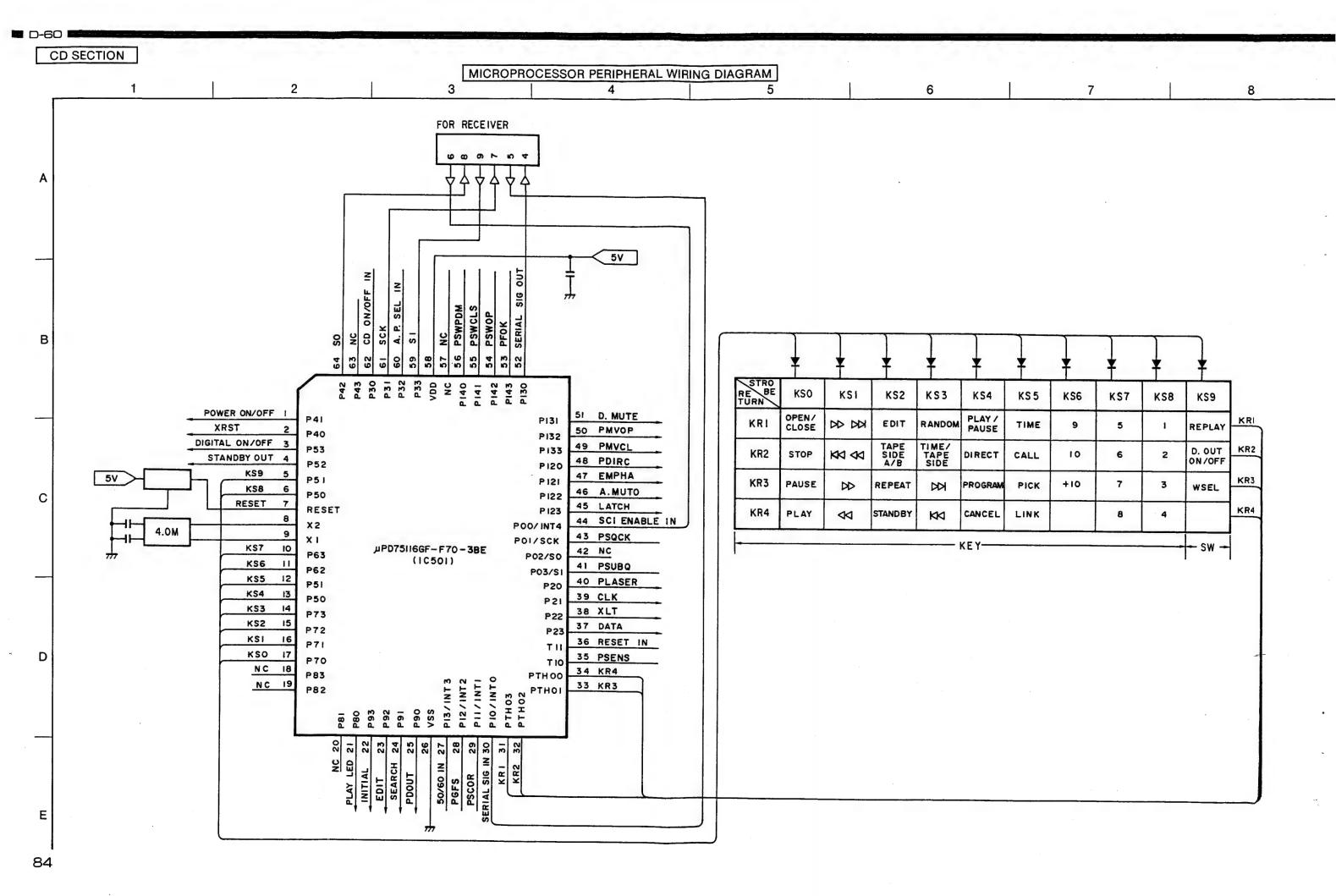


Diodes (included LED)



R2

R1 DTC114EK 10k ohm 10k ohm DTC144EK 47k ohm 47k ohm



E

85

CD SECTION WIRING DIAGRAM 8 3 5 KU-9258B-4 CD CONTROL UNIT CB502B В CB404 CB502A OPEN/ CLOSE SWITCH CB403 **CB402** TP404 00 VC HF С CB401 KU-9258B-3 LOADING **CD UNIT** MOTOR **CB402** TP405 TO GND CB401 PICK UP D CB503 0000000 CB301 CD MECHANISM BOTTOM VIEW IC306

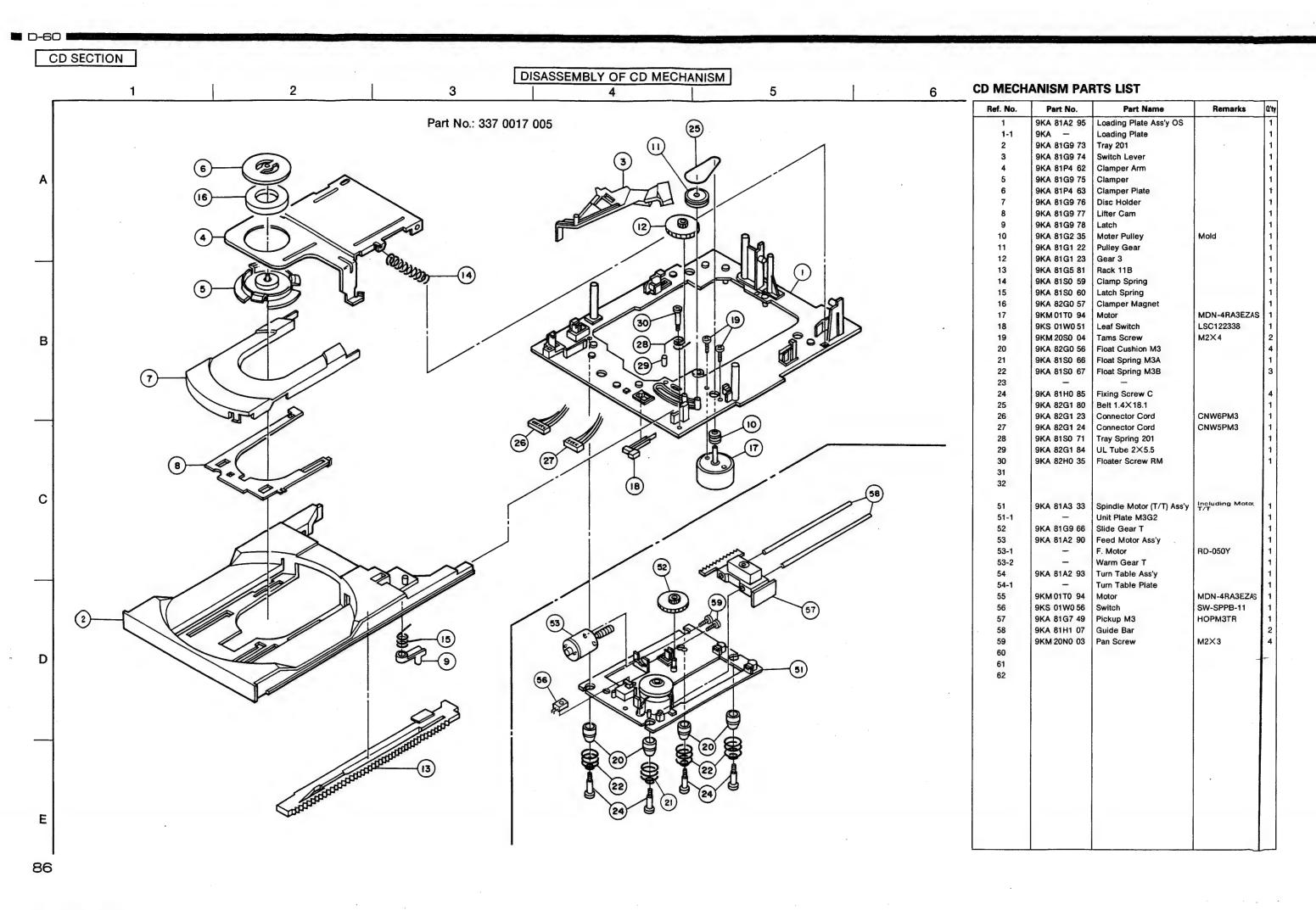
10-2551

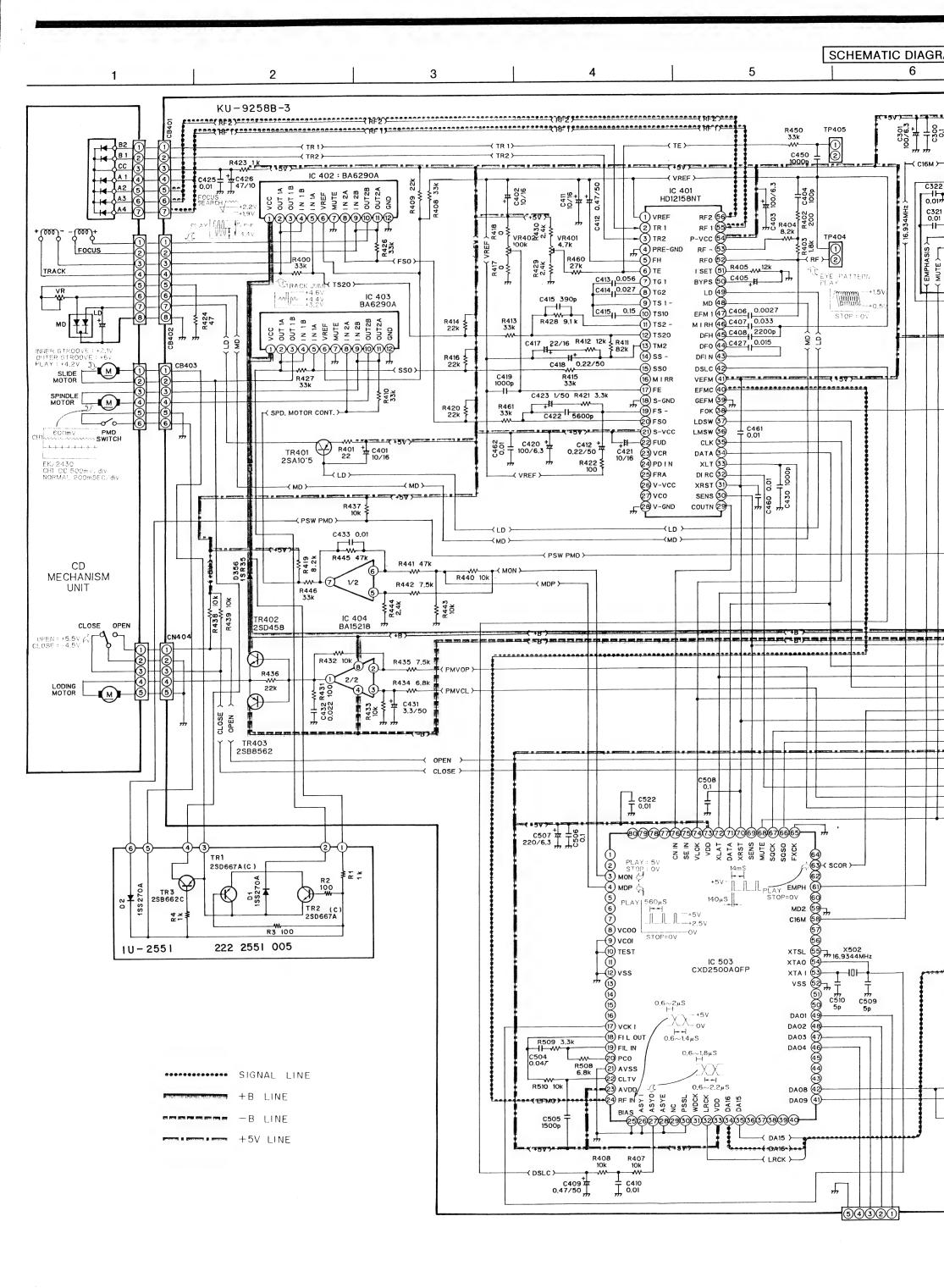
13P CONNECTOR

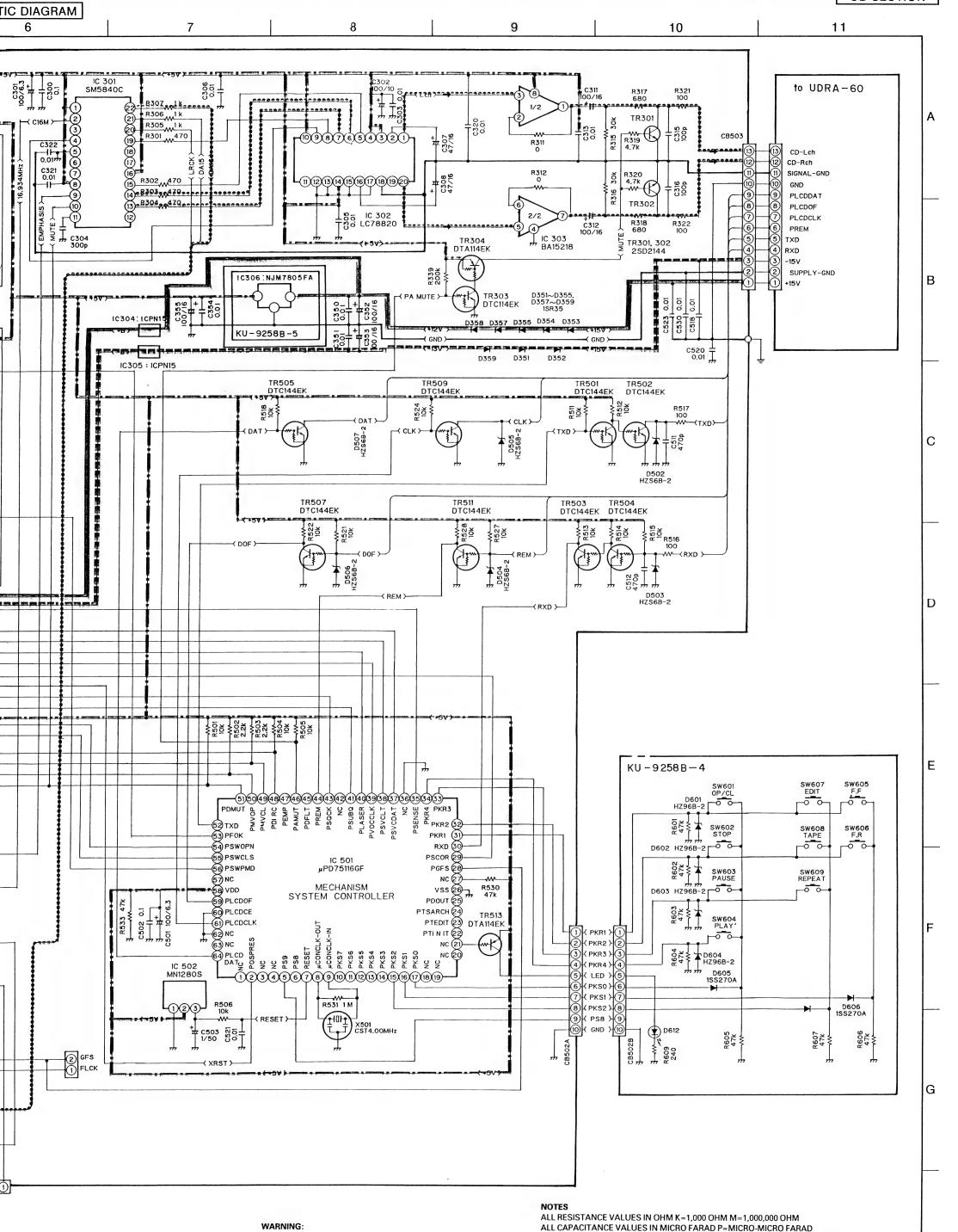
TO UDRA-60

KU-9258B-5

3T REG. UNIT







Parts marked with this symbol Δ have critical characteristics.

Use ONLY replacement parts recommended by the manifacturer.

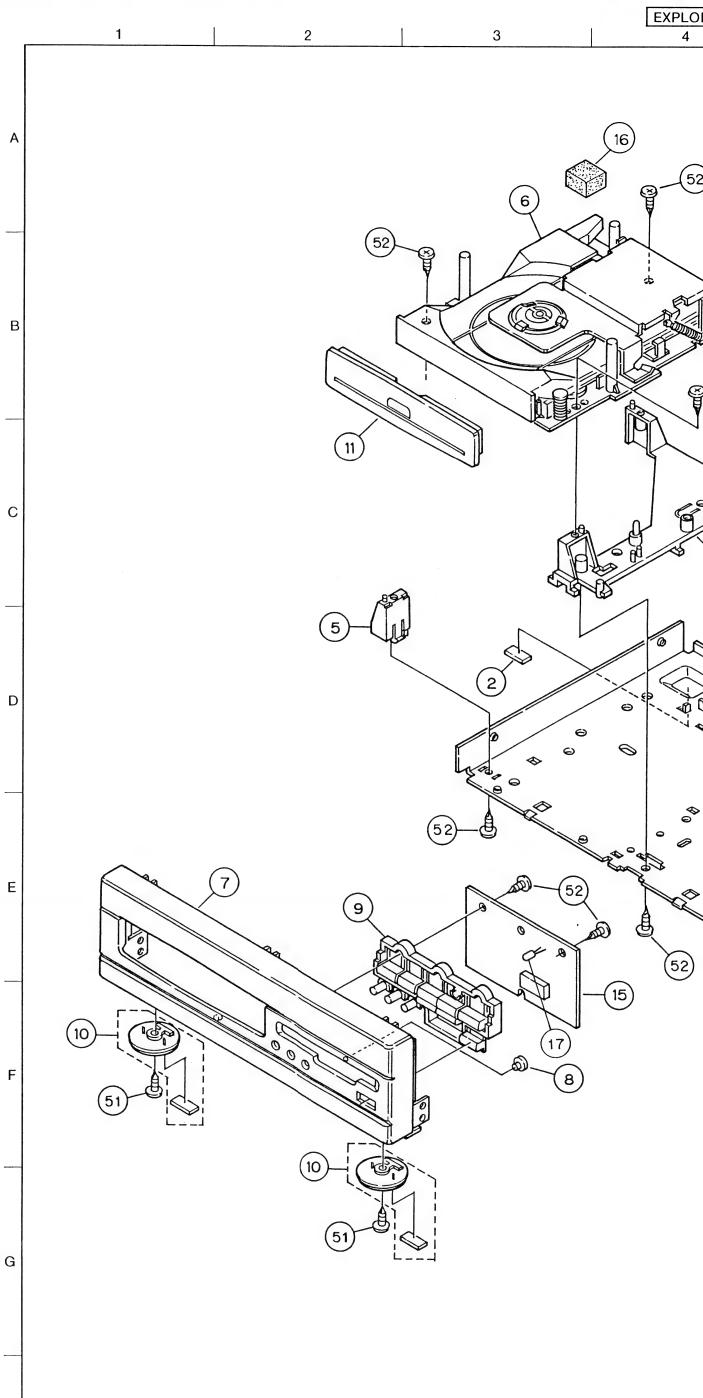
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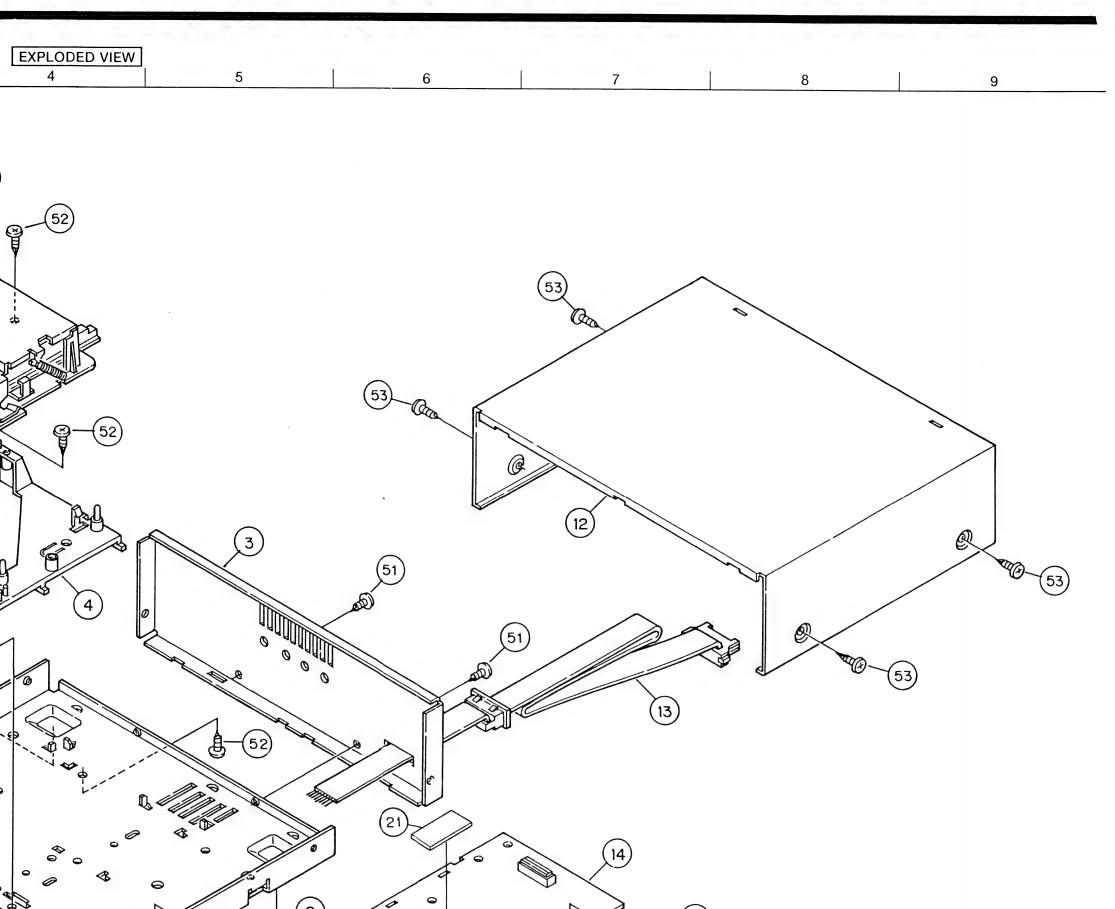
EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION.

CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

PARTS LIST OF UCD-60 EXPLODED

F	Ref. No.	Pa	rt No).	Part Name	Remarks	Q'ty	
	1	411	1158	203	Chassis		1	
	2	124 (0079	007	Felt Sheet		1	
	3	105 1	1026	317	Rear Panel		1	
	4	103 1	1538	100	Mecha Holder (A)		1	
	5	103 1	1539	002	Mecha Holder (B)		1	
•	6	337 (0017	005	CD Mecha Unit		1	F
	7	146 1	1348	106	Front Panel		1	
	8	143 (0783	006	Lens		1	
	9	113 1	1507	002	Play Knob		1	
	10	104 0	0258	002	Foot Ass'y		2	
	11	GEN 1	1975		Loader Panel (C) Ass'y		1	
	12	102 0	0508	015	Top Cover		1	
	13	204 6	3333	030	13P System Conn. Cord		1	
	14	KU- 9	9258	B-3	CD Unit		1	
\odot	15	KU- 9	258	B-4	CD SW. Unit		11	
	16	461 0	577	071	Rubber Sheet		1	
	17	393 9	509	006	LED LN38GP PN	D612	1	
*	18	204 2	2307	028	7P PH-PH Conn. Cord		1	
*	19	204 2	2306	032	8P PH-PH Conn. Cord		1	
*	20	KU- 9	258	B-5	CD REG. Unit		1	Е
•	21	1U- 2	2551		SLD Cont. Unit		1 ^S	
	SCREWS						_	
	51	473 7	002	021	Tapping Screw (S) 3×8		8	
	52	473 7	7500	044	Tapping Screw (P) 3×8	Black	8	
	53	473 7	015	018	Tapping Screw (S) 3×8	Black	4	
	54							
	PACKING	& ACC	CESS	ORIE	S (Not included EXPLODED	VIEW)		
	71	505 0	248	800	Cabinet Cover	600×600	1	
	72	513 1	818	111	Unit Sheet		1	
	73	503 9	236	002	Cushion		1	
	74	513 1	581	800	Serial No. Sheet		1	





NOTE FOR PARTS LIST

- Part indicated with the mark "•" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
 Ordering part without stating its part number can not be supplied.
 Part indicated with the mark "★" is not illustrated in the exploded view.

(52)

Use ONLY replacement parts recommended by the manifacturer.

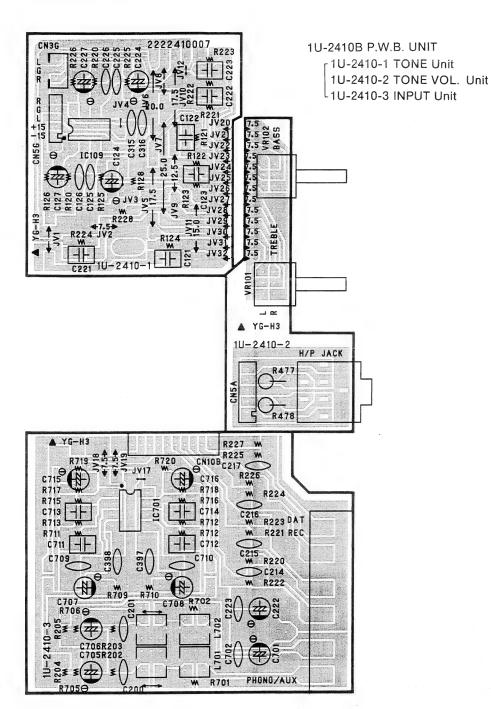
PRINTED WIRING BOARD

6

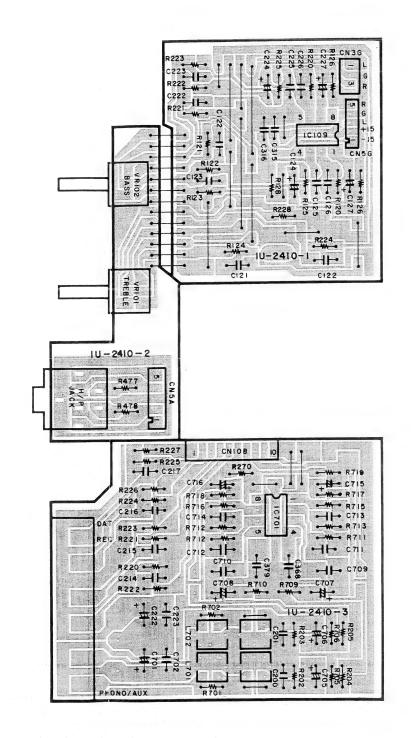
This unit is wholly used in the receiver section. 1U-2410B P.W.B. UNIT (3)

2

Component Side



Pattern Side

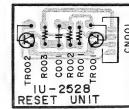


1U-2528 RESET UNIT

This unit is wholly used in the cassette deck section.

Component Side

RESET UNIT 0



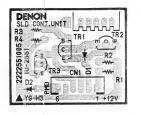
Pattern Side

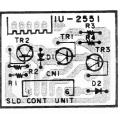
1U-2551 SLD CONT. UNIT

This unit is wholly used in the CD player section.

Component Side

Pattern Side





E

С

D

В

GENERAL SECTION-2

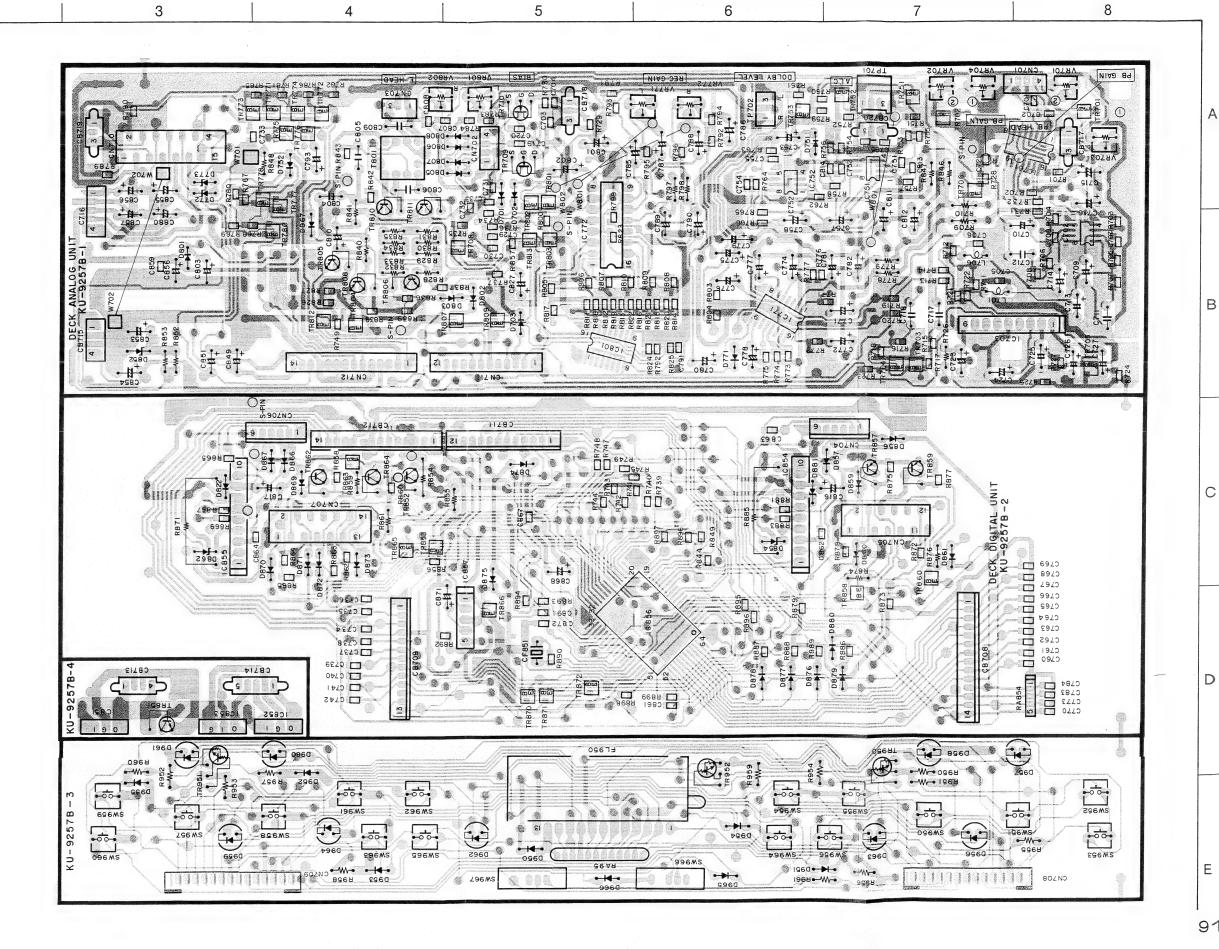
2 3 Component Side KU-9257B DECK UNIT ASS'Y DOLBY LEVEL 吊 DENON 229257205 J-9257B-2 DIGITAL UNIT FL950 KU-9257B-3 ▲ YG-H2 SW962 8 SW967 D953 R958

This unit is wholly used in the Cassette Deck Section.

KU-9257B DECK UNIT ASS'Y
KU-9257B DECK ANALOG Unit
KU-9257B DECK DIGITAL Unit
KU-9257B DECK DISPLAY Unit
KU-9257B DECK REG. Unit

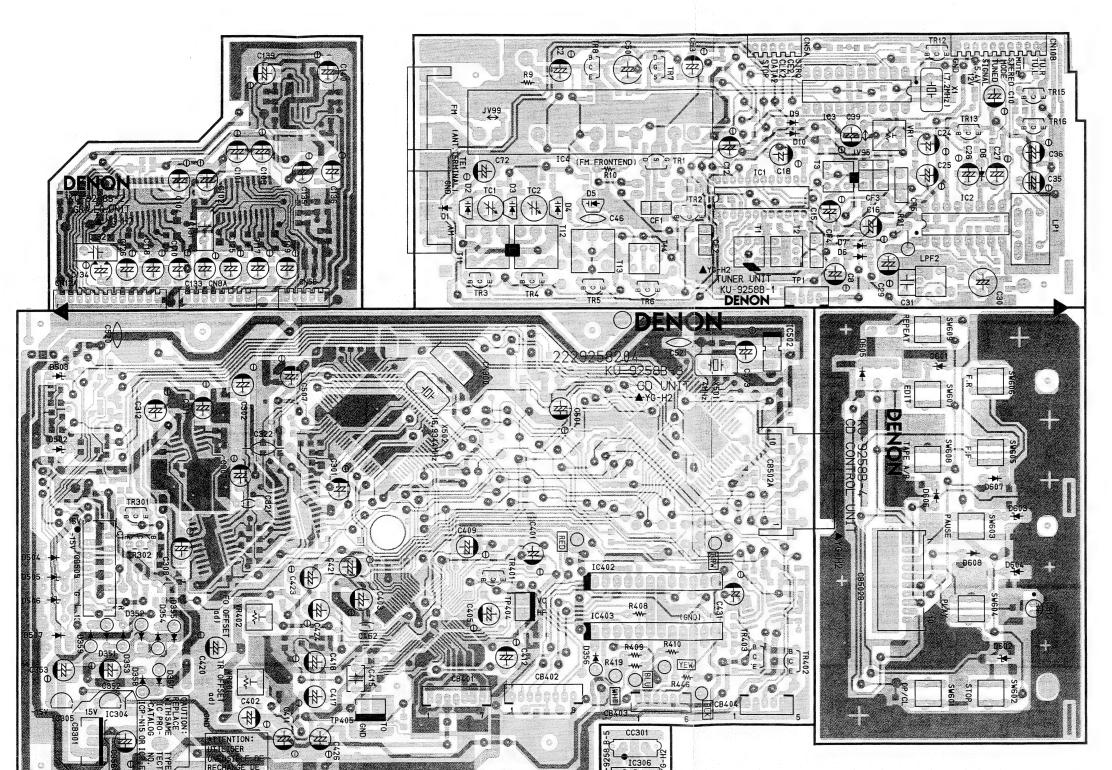
90

Pattern Side



1 2 3 4 5 6 7 8

Component Side KU-9258B TU/EQ/CD UNIT ASS'Y



KU-9258B TU/EQ/CD unit 1 is divided as follows.

1	2	3	4	5	
R	R	С	С	С	

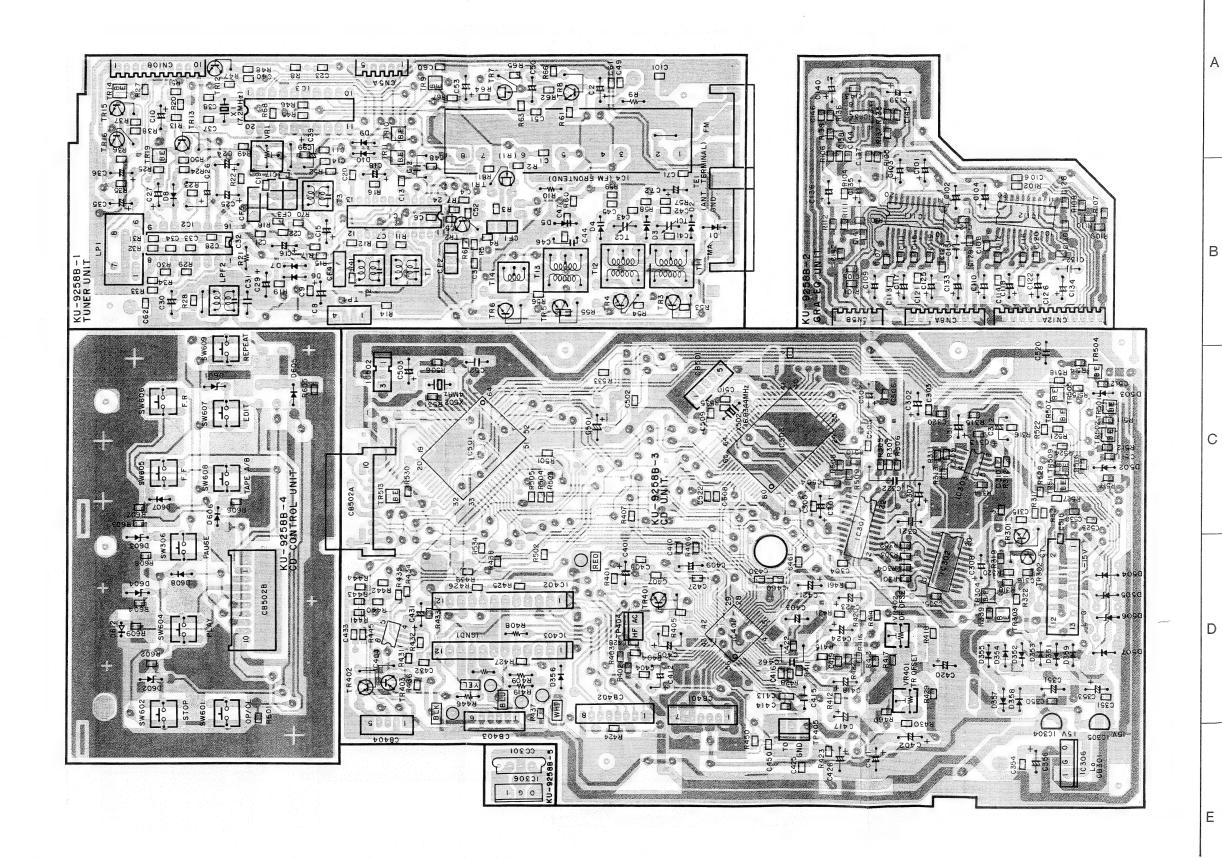
NOTE: R: Receiver Section
C: CD Player Section
KU-9258B TU/EQ/CD UNIT
KU-9258B TUNER Unit
KU-9258B GRA. EQ. Unit
KU-9258B CD Unit
KU-9258B CD CONTROL Unit
KU-9258B CD REGULATOR Unit

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GENERAL SECTION-2

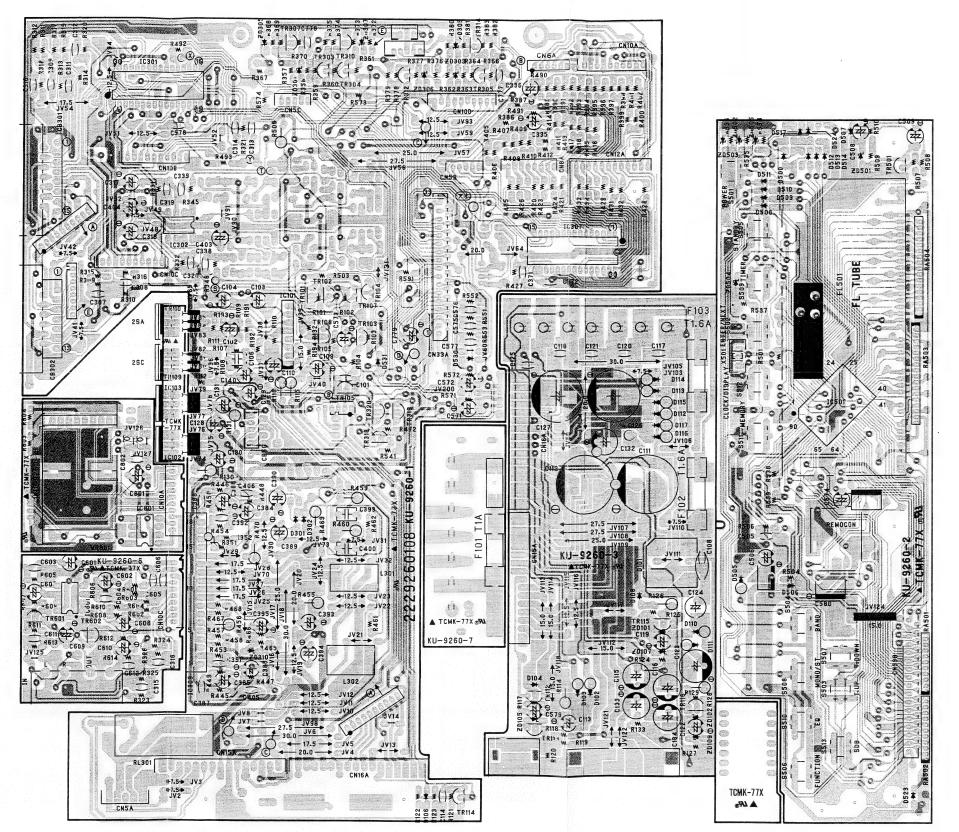
1 2 3 4 5 6 7 8

Pattern Side



1 2 3 4 5 6 7 8

Component Side KU-9260B AMP UNIT ASS'Y



This unit is wholly used in the Receiver (Amplifier) Section.

KU-9260B AMP. UNIT

KU-9260B-1 Amp. Unit

KU-9260B-2 Display Unit

KU-9260B-3 Power Supply Unit

KU-9260B-4 Master Vol-Unit

KU-9260B-5 None Use

KU-9260B-6 Proccessor Loop Unit

KU-9260B-7 Trans Terminal Unit KU-9260B-8 None Use

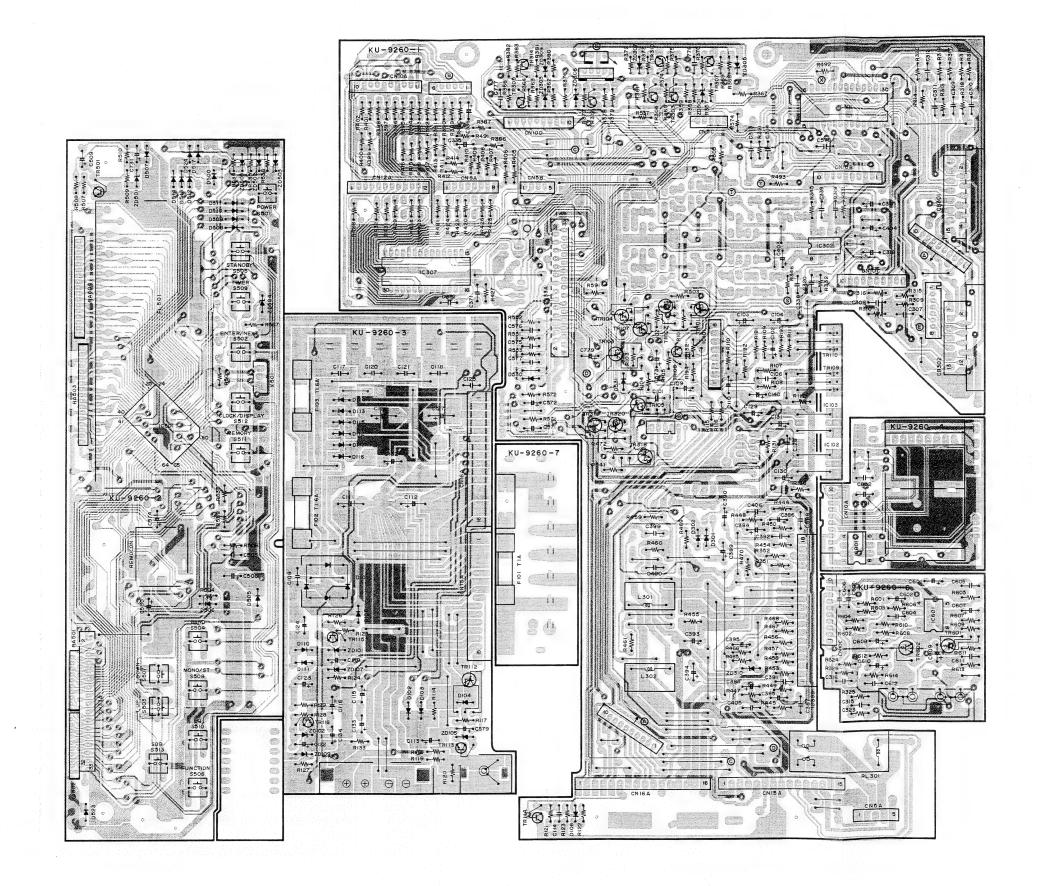
KU-9260B-9 None Use

94

8

1 2 3 4 5 6 7

Pattern Side



D

■ D-60 ■

GENERAL SECTION-2

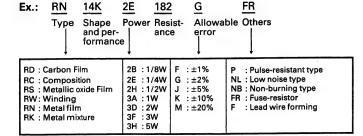
NOTE ON PARTS LIST

- Part indicated with the mark "@" are not always in stock and possibly to take a long period of time for suppling, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "1" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including Carbon Film ±5%, 1/4W Type in the P.W. Board parts list. (Refer to the Schematic Diagram for those parts.)

Parts marked with this symbol \triangle with this symbol \triangle have critical characteristics.

Use ONLY replacement parts recommended by the manufacturer.

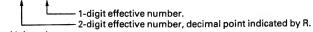
Resistors



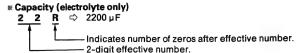
* Resistance	
1 8 2 ⇒	1800 ohm = 1.8 kohm
→ →	

-Indicates number of zeros after effective number -2-digit effective number

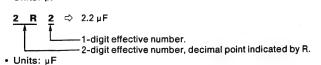
• Units: ohm



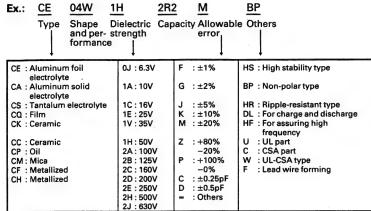
· Units: ohm



• Units: μF



Capacitors



* Capacity (except electrolyte) **2** R **2** \Rightarrow 2200pF = 2200 μF = 0.002 μF

• Units: μF

2 2	1	\Rightarrow	220pF	
1	Ŧ		4)	I d'annual a de la companya de la co
- 1	_		or 1)	Indicates number of zeros after effective number

 Units: pF
 When the dielectric strength is indicated in AC, "AC" is included after the dielectric strength value.

96

DENO-00058 / Druck 36

KU-9257B DECK UNIT PARTS LIST

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
	DUCTORS GRO	L	Hemarks	TR872	269 0083 901	Transister DTA114EK	Chip Built in R.
IC701	262 1211 904		r	TR950	269 0020 906	Transister DTC114ES	Built in Resistor
IC701	263 0700 008	IC M5220FP		TR951	269 0020 906	Transister DTC114ES	Built in Resistor
IC702	263 0621 006	IC LA2000		TR952	269 0020 906	Transister DTC114ES	Built in Resistor
IC201	262 1471 003	IC M50959-35		111002	200 0020 000		
IC751	263 0615 902	IC BA15218F		D701	276 0432 903	Diode 1SS270A	
IC751	263 0615 902	IC BA15218F		D702	276 0432 903	Diode 1SS270A	
IC752	263 0823 008	IC HA12136AFP		D703	276 0461 903	Zener Diode HZS6A-1	6V
IC771	263 0589 009	IC CXA1198AP		D751	276 0049 914	Diode 1S2076A	
IC801	262 1266 001	IC HD14051BFP		D752	276 0432 903	Diode 1SS270A	
IC851	263 0792 003	IC NJM78M06FA (S)	Regulator +6V	D771	276 0465 925	Zener Diode HZS7B-3	7V
IC852	263 0816 002	IC NJM78M09FA (S)	Regulator +9V	D772	276 0463 914	Zener Diode HZS6C-2	6V
IC853	263 0518 009	IC NJM79M09FA	Regulator -9V	D773	276 0463 914	Zener Diode HZS6C-2	6V
IC854	263 0402 005	IC BA6209		D801	276 0049 914	Diode 1S2076A	
IC855	263 0402 005	IC BA6209		D802	276 0049 914	Diode 1S2076A	
IC856	262 1584 204	IC HD404019RB83FS	μ-Com.	D803	276 0049 914	Diode 1S2076A	
IC857	263 0822 009	IC M62005L		D805	276 0432 903	Diode 1SS270A	
10037	200 0022 000	NO MOZOGOL		D806	276 0432 903	Diode 1SS270A	
TR701	269 0054 901	Transister DTC144EK	Chip Built in R.	D807	276 0432 903	Diode 1SS270A	
TR702	269 0054 901	Transister DTC144EK	Chip Built in R.	D808	276 0432 903	Diode 1SS270A	
TR703	273 0384 900	Transister 2SC2412K (S)	Chip	D852	276 0473 904	Zener Diode HZS12A-1	12V
TR704	273 0384 900	Transister 2SC2412K (S)	Chip	D854	276 0455 906	Zener Diode HZS4A-1	4V
TR705	273 0384 900	Transister 2SC2412K (S)	Chip	D856	276 0432 903	Diode 1SS270A	
TR706	269 0102 905	Transister DTC124EK	Chip Built in R.	D857	276 0432 903	Diode 1SS270A	
TR708	269 0083 901	Transister DTA114EK	Chip Built in R.	D859	276 0553 905	Diode 1SR35-200A	
TR709	275 0042 905	N-FET 2SK373 (Y)	J	D860	276 0432 903	Diode 1SS270A	
TR710	275 0042 905	N-FET 2SK373 (Y)		D861	276 0432 903	Diode 1SS270A	
TR751	273 0384 900	Transister 2SC2412K (S)	Chip	D862	276 0455 906	Zener Diode HZS4A-1	4V
TR752	273 0384 900	Transister 2SC2412K (S)	Chip	D866	276 0432 903	Diode 1SS270A	
TR753	273 0384 900	Transister 2SC2412K (S)	Chip	D867	276 0432 903	Diode 1SS270A	
TR771	269 0066 902	Transister DTC323TK	Chip Built in R.	D869	276 0553 905	Diode 1SR35-200A	
TR772	269 0066 902	Transister DTC323TK	Chip Built in R.	D870	276 0432 903	Diode 1SS270A	
TR773	269 0066 902	Transister DTC323TK	Chip Built in R.	D871	276 0432 903	Diode 1SS270A	
TR774	269 0066 902	Transister DTC323TK	Chip Built in R.	D872	276 0432 903	Diode 1SS270A	
TR775	269 0083 901	Transister DTA114EK	Chip Built in R.	D873	276 0432 903	Diode 1SS270A	
TR776	269 0082 902	Transister DTC114EK	Chip Built in R.	D874	276 0553 905	Diode 1SR35-200A	
TR777	269 0054 901	Transister DTC144EK	Chip Built in R.	D875	276 0432 903	Diode 1SS270A	
TR778	269 0054 901	Transister DTC144EK	Chip Built in R.	D876	276 0432 903	Diode 1SS270A	
TR780	269 0054 901	Transister DTC144EK	Chip Built in R.	D877	276 0432 903	Diode 1SS270A	
TR801	269 0066 902	Transister DTC323TK	Chip Built in R.	D878	276 0432 903	Diode 1SS270A	
TR802	269 0066 902	Transister DTC323TK	Chip Built in R.	D879	276 0432 903	Diode 1SS270A	
TR803	269 0083 901	Transister DTA114EK	Chip Built in R.	D880	276 0432 903	Diode 1SS270A	
TR804	269 0082 902	Transister DTC114EK	Chip Built in R.	D881	276 0467 910	Zener Diode HZS9A-2	9V
TR805	271 0192 905	Transister 2SA933S (S)		D882	276 0467 910	Zener Diode HZS9A-2	9V
TR806	271 0192 905	Transister 2SA933S (S)		D950	276 0432 903	Diode 1SS270A	
TR807	269 0082 902	Transister DTC114EK	Chip Built in R.	D951	276 0432 903	Diode 1SS270A	
TR808	271 0192 905	Transister 2SA933S (S)		D952	276 0432 903	Diode 1SS270A	
TR809	269 0082 902	Transister DTC114EK	Chip Built in R.	D953	276 0432 903	Diode 1SS270A	
TR810	273 0303 910	Transister 2SC1740S (S)		D954	276 0432 903	Diode 1SS270A	
TR811	273 0303 910	Transister 2SC1740S (S)		D955	276 0432 903	Diode 1SS270A	
TR812	269 0082 902	Transister DTC114EK	Chip Built in R.	D956	393 9507 008	LED SLR-37MG	Green
TR813	269 0082 902	Transister DTC114EK	Chip Built in R.	D957	393 9507 008	LED SLR-37MG	Green
TR851	273 0330 006	Transister 2SC3852		D958	393 9507 008	LED SLR-37MG	Green
TR852	272 0121 005	Transister 2SB1307M (Q)		D959	393 9507 008	LED SLR-37MG	Green
TR853	269 0082 902	Transister DTC114EK	Chip Built in R.	D960	393 9507 008	LED SLR-37MG	Green
TR857	272 0025 907	Transister 2SB562 (C)		D961	393 9507 008	LED SLR-37MG	Green
TR858	269 0088 906	Transister DTC114TK	Chip Built in R.	D962	393 9508 007	LED SLR-37VR	Red
TR859	272 0025 907	Transister 2SB562 (C)		D963	393 9508 007	LED SLR-37VR	Red
TR860	269 0088 906	Transister DTC114TK	Chip Built in R.	D964	393 9508 007	LED SLR-37VR	Red
TR862	272 0025 907	Transister 2SB562 (C)		D965	276 0432 903	Diode 1SS270A	
TR863	269 0088 906	Transister DTC114TK	Chip Built in R.	D966	276 0432 903	Diode 1SS270A	
TR864	272 0025 907	Transister 2SB562 (C)		D967	276 0432 903	Diode 1SS270A	
TR865	269 0088 906	Transister DTC114TK	Chip Built in R.			included Carbon Film ±5% or to the Scematic Diagram	o, 1/4W Type for those Parts.)
TR870	269 0083 901	Transister DTA114EK	Chip Built in R.	R701	247 0011 960	Chip Carbon 56k ohm 1/10W	RM73B563J
TR871	269 0083 901	Transister DTA114EK	Chip Built in R.	R702	247 0011 960	Chip Carbon 56k ohm 1/10W	RM73B563J

		D. A Name	Damarka	Def No	Port No.	Part Name	Remarks
Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No. 247 0010 961		RM73B223J
R703	247 0005 905	Chip Carbon 100 ohm 1/10W	RM73B101J RM73B101J	R774 R775	247 0010 981	Chip Carbon 22k ohm 1/10W Chip Carbon 10k ohm 1/10W	RM73B2233
R704 R705	247 0005 905 247 0013 926	Chip Carbon 100 ohm 1/10W Chip Carbon 270k ohm 1/10W	RM73B274J	R776	247 0003 303	Chip Carbon 100k ohm 1/10W	RM73B104J
R706	247 0013 926	Chip Carbon 270k ohm 1/10W	RM73B274J	R777	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J
R707	247 0010 920	Chip Carbon 18k ohm 1/10W	RM73B183J	R780	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J
R708	247 0010 945	Chip Carbon 18k ohm 1/10W	RM73B183J	R781	247 0007 974	Chip Carbon 1.3k ohm 1/10W	RM73B132J
R711	247 0008 960	Chip Carbon 3.3k ohm 1/10W	RM73B332J	R782	247 0007 974	Chip Carbon 1.3k ohm 1/10W	RM73B132J
R712	247 0008 960	Chip Carbon 3.3k ohm 1/10W	RM73B332J	R783	247 0010 945	Chip Carbon 18k ohm 1/10W	RM73B183J
R713	247 0009 914	Chip Carbon 5.1k ohm 1/10W	RM73B512J	R784	247 0010 945	Chip Carbon 18k ohm 1/10W	RM73B183J
R714	247 0009 914	Chip Carbon 5.1k ohm 1/10W	RM73B512J	R785	247 0007 945	Chip Carbon 1k ohm 1/10W	RM73B102J
R715	247 0009 956	Chip Carbon 7.5k ohm 1/10W	RM73B752J	R786	247 0007 945	Chip Carbon 1k ohm 1/10W	RM73B102J
R716	247 0009 956	Chip Carbon 7.5k ohm 1/10W	RM73B752J	R789	247 0005 905	Chip Carbon 100 ohm 1/10W	RM73B101J
R717	247 0014 967	Chip Carbon 1M ohm 1/10W	RM73B105J	R790	247 0005 905	Chip Carbon 100 ohm 1/10W	RM73B101J
R718	247 0014 967	Chip Carbon 1M ohm 1/10W	RM73B105J	R791	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J
R719	247 0007 945	Chip Carbon 1k ohm 1/10W	RM73B102J	R792	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J
R720	247 0007 945	Chip Carbon 1k ohm 1/10W	RM73B102J	R793	247 0009 927	Chip Carbon 5.6k ohm 1/10W	RM73B562J
R721	247 0011 944	Chip Carbon 47k ohm 1/10W	RM73B473J	R794	247 0009 927	Chip Carbon 5.6k ohm 1/10W	RM73B562J
R722	247 0011 944	Chip Carbon 47k ohm 1/10W	RM73B473J	R795	247 0009 927	Chip Carbon 5.6k ohm 1/10W	RM73B562J
R723	247 0010 961	Chip Carbon 22k ohm 1/10W	RM73B223J	R796	247 0009 927	Chip Carbon 5.6k ohm 1/10W	RM73B562J
R724	247 0011 960	Chip Carbon 56k ohm 1/10W	RM73B563J	R799	247 0010 974	Chip Carbon 24k ohm 1/10W Chip Carbon 1k ohm 1/10W	RM73B243J
R725	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J	R800	247 0007 945 247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B102J RM73B103J
R727	247 0010 990	Chip Carbon 30k ohm 1/10W	RM73B303J RM73B103J	R803 R804	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J
R728	247 0009 985	Chip Carbon 10k ohm 1/10W Chip Carbon 100k ohm 1/10W	RM73B104J	R805	247 0003 969	Chip Carbon 150k ohm 1/10W	RM73B154J
R729	247 0012 927 247 0012 927	Chip Carbon 100k ohm 1/10W	RM73B104J	R806	247 0012 956	Chip Carbon 130k ohm 1/10W	RM73B134J
R730 R731	247 0012 927	Chip Carbon 47k ohm 1/10W	RM73B473J	R807	247 0011 986	Chip Carbon 68k ohm 1/10W	RM73B683J
R732	247 0001 944	Chip Carbon 4.7k ohm 1/10W	RM73B472J	R808	247 0010 974	Chip Carbon 24k ohm 1/10W	RM73B243J
R733	247 0015 940	Chip Carbon 2.2M ohm 1/10W	RM73B225J	R809	247 0011 944	Chip Carbon 47k ohm 1/10W	RM73B473J
R734	247 0015 940	Chip Carbon 2.2M ohm 1/10W	RM73B225J	R810	247 0010 961	Chip Carbon 22k ohm 1/10W	RM73B223J
R735	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J	R811	247 0011 986	Chip Carbon 68k ohm 1/10W	RM73B683J
R736	247 0012 927	Chip Carbon 100k ohm 1/10W	RM73B104J	R812	247 0011 957	Chip Carbon 51k ohm 1/10W	RM73B513J
R737	247 0007 945	Chip Carbon 1k ohm 1/10W	RM73B102J	R813	247 0012 943	Chip Carbon 120k ohm 1/10W	RM73B124J
R739	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J	R814	247 0011 957	Chip Carbon 51k ohm 1/10W	RM73B513J
R740	247 0009 901	Chip Carbon 4.7k ohm 1/10W	RM73B472J	R815	247 0011 986	Chip Carbon 68k ohm 1/10W	RM73B683J
R741	247 0009 901	Chip Carbon 4.7k ohm 1/10W	RM73B472J	R816	247 0012 901	Chip Carbon 82k ohm 1/10W	RM73B823J
R742	247 0009 901	Chip Carbon 4.7k ohm 1/10W	RM73B472J	R817	247 0012 998	Chip Carbon 200k ohm 1/10W	RM73B204J
R743	247 0009 901	Chip Carbon 4.7k ohm 1/10W	RM73B472J	R818	247 0011 957	Chip Carbon 51k ohm 1/10W	RM73B513J
R744	247 0009 901	Chip Carbon 4.7k ohm 1/10W	RM73B472J	R819	247 0012 927	Chip Carbon 100k ohm 1/10W	RM73B104J
R745	247 0009 901	Chip Carbon 4.7k ohm 1/10W	RM73B472J	R820	247 0011 957	Chip Carbon 51k ohm 1/10W	RM73B513J
R746	247 0009 901	Chip Carbon 4.7k ohm 1/10W	RM73B472J	R821	247 0012 930	Chip Carbon 110k ohm 1/10W	RM73B114J RM73B913J
R747	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J	R822 R823	247 0012 914 247 0012 927	Chip Carbon 91k ohm 1/10W Chip Carbon 100k ohm 1/10W	RM73B9133
R748	247 0009 985 247 0009 985		RM73B103J RM73B103J	R824	247 0012 927	· ·	RM73B472J
R749			RM73B683J	R825	247 0009 901	Chip Carbon 4.7k ohm 1/10W	RM73B472J
R751	247 0011 986 247 0011 986		RM73B683J	R826	247 0003 301	Chip Carbon 1k ohm 1/10W	RM73B102J
R752 R753	247 0011 980		RM73B272J	R827	247 0008 960	Chip Carbon 3.3k ohm 1/10W	RM73B332J
R754	247 0008 944		RM73B272J	R836	247 0007 945	Chip Carbon 1k ohm 1/10W	RM73B102J
R755	247 0009 972	· ·	RM73B912J	R837	247 0008 960	Chip Carbon 3.3k ohm 1/10W	RM73B332J
R756	247 0009 972		RM73B912J	R838	247 0007 945	Chip Carbon 1k ohm 1/10W	RM73B102J
R757	247 0010 990	1	RM73B303J	R839	247 0008 960	Chip Carbon 3.3k ohm 1/10W	RM73B332J
R758	247 0010 990		RM73B303J	R842	247 0001 983	Chip Carbon 4.7 ohm 1/10W	RM73B4R7K
R759	247 0009 901	Chip Carbon 4.7k ohm 1/10W	RM73B472J	R843	247 0010 903	Chip Carbon 12k ohm 1/10W	RM73B123J
R760	247 0009 901	Chip Carbon 4.7k ohm 1/10W	RM73B472J	R844	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J
R761	247 0005 905	Chip Carbon 100 ohm 1/10W	RM73B101J	R845	247 0009 901	Chip Carbon 4.7k ohm 1/10W	RM73B472J
R762	247 0004 922	Chip Carbon 47 ohm 1/10W	RM73B470J	R856	247 0007 945	Chip Carbon 1k ohm 1/10W	RM73B102J
R763	247 0009 985		RM73B103J	R857	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J
R764	247 0012 985		RM73B184J	R858	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J
R765	247 0009 985		RM73B103J	R860	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J
R766	247 0009 985		RM73B103J	R862	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J
R767	247 0009 985	1	RM73B103J	R863	247 0010 990	Chip Carbon 30k ohm 1/10W	RM73B303J
R768	247 0009 985	· ·	RM73B103J	R864	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J RM73B303J
R769	247 0009 985		RM73B103J RM73B102J	R865 R867	247 0010 990 247 0007 945	Chip Carbon 30k ohm 1/10W Chip Carbon 1k ohm 1/10W	RM 73B303J
R771 R772	247 0007 945 247 0007 945	•	RM73B102J	R869	247 0007 945	Chip Carbon 1k ohm 1/10W	RM73B102J
R773	247 0007 945		RM73B183J	R872	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
R873	247 0010 990	Chip Carbon 30k ohm 1/10W	RM73B303J	C729	257 0008 983	Chip Ceramic 1000pF/50V	CK73B1H102K
R875	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J	C730	257 0012 966	Chip Ceramic 0.01 µF/50V	CK73F1H103Z
R877	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J	C731	257 0008 983	Chip Ceramic 1000pF/50V	CK73B1H102K
R878	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J	C732	257 0008 983	Chip Ceramic 1000pF/50V	CK73B1H102K
R879	247 0010 990	Chip Carbon 30k ohm 1/10W	RM73B303J	C733	257 0014 935	Chip Ceramic 0.1 µF/25V	CK73F1E104Z
R881	247 0007 945	Chip Carbon 1k ohm 1/10W	RM73B102J	C751	257 0005 902	Chip Ceramic 150pF/50V	CC73SL1H151J
R883	247 0007 945	Chip Carbon 1k ohm 1/10W	RM73B102J	C752	257 0005 902	Chip Ceramic 150pF/50V	CC73SL1H151J
R886	247 0011 944	Chip Carbon 47k ohm 1/10W	RM73B473J	C753	254 4302 932	Electrolytic 22µF/10V	CE04W1A220M (SRE)
R887	247 0011 944	Chip Carbon 47k ohm 1/10W	RM73B473J	C754	257 0004 961	Chip Ceramic 100pF/50V	CC73SL1H101J
R888	247 0011 944	Chip Carbon 47k ohm 1/10W	RM73B473J	C755	257 0004 961	Chip Ceramic 100pF/50V	CC73SL1H101J
R889	247 0011 944	Chip Carbon 47k ohm 1/10W	RM73B473J	C757	254 4304 927	Electrolytic 4.7 µF/35V	CE04W1V4R7M (SRE)
R890	247 0014 967	Chip Carbon 1M ohm 1/10W	RM73B105J	C758	254 4304 927	Electrolytic 4.7 µ F/35V	CE04W1V4R7M (SRE)
R892	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J	C771	254 4305 968	Electrolytic 1µF/50V	CE04W1H010M (SRE)
R893	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J	C772	254 4305 968	Electrolytic 1µF/50V	CE04W1H010M (SRE)
R894	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J	C774	254 4299 906	Electrolytic 10µF/16V	CE04W1C100M (SRE)
R895	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J	C775	254 4304 927	Electrolytic 4.7 µ F/35V	CE04W1V4R7M (SRE)
R896	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J	C776	254 4304 927	Electrolytic 4.7 µ F/35V	CE04W1V4R7M (SRE)
R897	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J	C777	254 4305 926	Electrolytic 0.22 µ F/50V	CE04W1HR22M (SRE)
R898	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J	C778	254 4305 926	Electrolytic 0.22µF/50V	CE04W1HR22M (SRE)
R899	247 0011 944	Chip Carbon 47k ohm 1/10W	RM73B473J	C779	254 4304 927	Electrolytic 4.7 µ F/35V	CE04W1V4R7M (SRE)
R901	247 0008 928	Chip Carbon 2.2k ohm 1/10W	RM73B222J	C780	254 4304 927	Electrolytic 4.7 µF/35V	CE04W1V4R7M (SRE)
R902	247 0008 928	Chip Carbon 2.2k ohm 1/10W	RM73B222J	C781	254 4302 974	Electrolytic 100µF/10V	CE04W1A101M (SRE)
R903	247 0008 928	Chip Carbon 2.2k ohm 1/10W	RM73B222J	C782	254 4302 974	Electrolytic 100µF/10V	CE04W1A101M (SRE)
R904	247 0008 928	Chip Carbon 2.2k ohm 1/10W	RM73B222J	C785	254 4305 942	Electrolytic 0.47 µ F/50V	CE04W1HR47M (SRE)
△R797	241 2377 921	Carbon Film 82 ohm 1/4W (NB)	RD14B2E820JNBS	C786	254 4305 942	Electrolytic 0.47 µ F/50V	CE04W1HR47M (SRE)
△R798	241 2377 921	Carbon Film 82 ohm 1/4W (NB)	RD14B2E820JNBS	C787	254 4304 927	Electrolytic 4.7µF/35V	CE04W1V4R7M (SRE)
△R840	241 2375 907	Carbon Film 10 ohm	RD14B2E100JNBS	C788	254 4304 927	Electrolytic 4.7µF/35V	CE04W1V4R7M (SRE)
△R841	241 2375 907	Carbon Film 10 ohm 1/4W (NB)	RD14B2E100JNBS	C789	254 4302 974	Electrolytic 100µF/10V	CE04W1A101M (SRE)
△R871	244 0074 021	Metal Oxide 10 ohm 2W	RS14B3D100JNBF	C790	254 4302 974	Electrolytic 100µF/10V	CE04W1A101M (SRE)
△R885	244 0074 021	Metal Oxide 10 ohm 2W	RS14B3D100JNBF	C791	257 0012 966	Chip Ceramic 0.01µF/50V	CK73F1H1O3Z
1/0704 700	011 0005 001	Occasi Firmed A 71s above	\/000 D 470	C792	257 0012 966	Chip Ceramic 0.01µF/50V	CK73F1H1O3Z
VR701,702	211 8005 021	Semi Fixed 4.7k ohm	V06QB472 V06QB472	C793	254 4302 974 257 0008 941	Electrolytic 100 µ F/10V	CE04W1A101M (SRE)
VR703,704 VR771,772	211 6070 003 211 6070 029	Semi Fixed 1k ohm Semi Fixed 10 k ohm	V06QB472 V06QB103	C795	257 0008 941	Chip Ceramic 470pF/50V Chip Ceramic 470pF/50V	CK73B1H471K
VR801,802	211 8070 029	Semi Fixed 47 k ohm	V06QB103	C801	254 4304 927	Electrolytic 4.7µF/35V	CK73B1H471K CE04W1V4R7M (SRE)
V11001,002	211 8003 003	Selfii Fixed 47 K Ollili	V00QD473	C802	254 4304 927	Electrolytic 4.7 µF/35V	CE04W1V4R7M (SRE)
RA951	246 2079 004	Resistor Array 47k ohm×11	RK99=2B473JP11 (S)	C803	254 4300 963	Electrolytic 100µF/6.3V	CE04W0J101M (SRE)
	ORS GROUP	resistor Array 4710 onniver	111(30 2547 301 11 (0)	C804	254 4256 949	Electrolytic 100µF/25V	CE04W1E1O1M
C701	257 0006 927	Chip Ceramic 470pF/50V	CC73SL1H471J	C805	255 1210 907	Plastic Film 0.0068µF/50V	CQ93M1H682J
C702	257 0006 927	Chip Ceramic 470pF/50V	CC73SL1H471J	C806	256 1034 979	Metalized 0.1µF/50V	CF93A1H1O4J
C703	257 0005 986	Chip Ceramic 330pF/50V	CC73SL1H331J	C807	257 0005 944	Chip Ceramic 220pF/50V	CC73SL1H221J
C704	257 0005 986	Chip Ceramic 330pF/50V	CC73SL1H331J	C808	257 0005 944	Chip Ceramic 220pF/50V	CC73SL1H221J
C705	257 0005 902	Chip Ceramic 150pF/50V	CC73SL1H151J	C809	255 1253 003	Plastic Film 0.01µF/200V	CQ92M2D1 03J
C706	257 0005 902	Chip Ceramic 150pF/50V	CC73SL1H151J	C810	254 4304 943	Electrolytic 10µF/35V	CE04W1V10 OM (SRE)
C707	257 0004 961	Chip Ceramic 470pF/50V	CC73SL1H101J	C811	254 4299 906	Electrolytic 10µF/16V	CE04W1ClOOM (SRE)
C708	257 0004 961	Chip Ceramic 470pF/50V	CC73SL1H101J	C812	254 4299 906	Electrolytic 10µF/16V	CE04W1ClOOM (SRE)
C709	254 4300 963	Electrolytic 100 µF/6.3V	CE04W0J101M (SRE)	C813	257 0003 988	Chip Ceramic 47pF/50V	CC73SL1H470J
C710	254 4300 963	Electrolytic 100 µ F/6.3V	CE04W0J101M (SRE)	C814	257 0003 988	Chip Ceramic 47pF/50V	CC73SL1H470J
C711	255 1256 903	Plastic Film 0.0075µF/50V	CQ93M1H752J (MRZ)	C816	254 4193 947	Electrolytic 100 µF/16V	CE04W1Cl0 1M (SRA)
C712	255 1256 903	Plastic Film 0.0075µF/50V	CQ93M1H752J (MRZ)	C817	254 4193 947	Electrolytic 100µF/16V	CE04W1Cl0 1M (SRA)
C713	254 4304 927	Electrolytic 4.7 µF/35V	CE04W1V4R7M (SRE)	C849	254 4305 984	Electrolytic 2.2µF/50V	CE04W1H2R2M (SRE)
C714	254 4304 927	Electrolytic 4.7 µ F/35V	CE04W1V4R7M (SRE)	C851	254 4303 957	Electrolytic 22µF/25V	CE04W1E22OM (SRE)
C715	254 4302 958	Electrolytic 47µF/10V	CE04W1A470M (SRE)	C853	254 4299 964	Electrolytic 47µF/16V	CE04W1C47 OM (SRE)
C716	254 4302 958	Electrolytic 47µF/10V	CE04W1A470M (SRE)	C854	254 4193 947	Electrolytic 100µF/16V	CE04W1CI0 1M (SRA)
C717	255 1212 905	Plastic Film 0.01 µF/50V	CQ93M1H103J	C855	254 4303 931	Electrolytic 10µF/25V	CE04W1 E10 OM (SRE)
C718	255 1212 905	Plastic Film 0.01 µF/50V	CQ93M1H103J	C856	254 4299 906	Electrolytic 10µF/16V	CE04W1C10 OM (SRE)
C719	257 0003 988	Chip Ceramic 47pF/50V	CC73SL1H470J	C857	254 4303 931	Electrolytic 10µF/25V	CE04W1E10OM (SRE)
C720	257 0003 988	Chip Ceramic 47pF/50V	CC73SL1H470J	C858	254 4254 080	Electrolytic 1000µF/16V	CE04W1C1@2M
C721	257 0012 966	Chip Ceramic 0.01µF/50V	CK73F1H103Z	C859	257 0012 966	Chip Ceramic 0.01µF/50V	CK73F1H10 3Z
C723	254 4302 974	Electrolytic 100µF/10V	CE04W1A101M (SRE)	C860	254 4299 906	Electrolytic 10µF/16V	CE04W1C10 OM (SRE)
C724	254 4305 900	Electrolytic 0.1 µF/50V	CE04W1H0R1M (SRE)	C861	257 0008 983	Chip Ceramic 1000pF/50V	CK73B1HIO2K
C725	254 4305 900	Electrolytic 0.1 µF/50V	CE04W1H0R1M (SRE)	C862	257 0014 935	Chip Ceramic 0.1 µF/25V	CK73F1E10 4Z
C726	254 4305 968	Electrolytic 1 µ F/50V	CE04W1H010M (SRE)	C863	257 0014 935	Chip Ceramic 0.1 µF/25V	CK73F1E10 4Z
C727	254 4305 968	Electrolytic 1µF/50V	CE04W1H010M (SRE)	C864	257 0014 935	Chip Ceramic 0.1 µF/25V	CK73F1E10 4Z
C728	254 4302 974	Electrolytic 100µF/10V	CE04W1A101M (SRE)	C865	257 0014 935	Chip Ceramic 0.1 µF/25V	CK73F1E10 4Z

KU-9258B-1,2 TUNER, EQ SECTION PARTS LIST

Ref. No.	Part No.	Part Name	Remarks		Ref. No.	Part No.	Part Name	Remarks
C866	257 0012 966	Chip Ceramic 0.01µF/50V	CK73F1H103Z	\neg	SEMICON	NDUCTORS GR	DUP	
C867	257 0012 966	Chip Ceramic 0.01µF/50V	CK73F1H103Z		IC001	263 0421 002		
C868	254 4327 904	Electrolytic 1000 µF/6.3V	CE04W0J102M (SF	RE)	IC002	263 0584 004	IC LA3410	
C871	254 4305 023	Electrolytic 0.22µF/50V	CE04W1HR22M (S	RE)	IC003	262 0703 002	IC LM7000	
OTHER G	ROUP			Q'ty	IC201	262 1471 003	IC M50959-359SP	
	_	(P.W.Board)		(1)	IC004	216 0079 008	FM Front End	
L701,702	235 0020 945	Inductor 153J		2	IC111	263 0699 902	IC LA3607M-TP	
	212 5604 910	Tact Switch		16	IC112	263 0699 902	IC LA3607M-TP	
CF851	399 9018 003	Ceramic Vibrator	CST4.00 MGW	1	IC113	263 0615 902	IC BA15218F	
T801	231 9805 004	105 kHz OSC Coil		1			-	
SW966	212 4423 008	Slide Switch		1	TR001	275 0051 909	N-FET 2SK161 (GR)	
SW967	212 9504 003	Slide Switch		1	TR002	273 0025 926	, ,	
FL950	393 4135 006	FLD FIP4H5		1	TR003	273 0317 906	' '	
	461 0496 026	Spacer		1	TR004	273 0317 906	, ,	
					TR005	273 0317 906	, ,	
TP701	205 0355 033	3P KR Conn. Base (L)		1	TR006	273 0317 906		
TP702	205 0546 033	3P Pin Post		1	TR007	275 0053 907	1 ' '	
CB717,718 719,720	205 0409 031	3P Dip Socket		4	TR008	273 0317 906	1	
CB713	205 0409 044	4P Dip Socket		1	TR009	269 0055 900	, ,	Chip Built in R.
CB714	205 0409 057	5P Dip Socket		1	TR010	269 0055 900		Chip Built in R.
CN705	205 0553 026	12P Trap Conn. Base			TR011	269 0055 900		I
CN710	205 0554 054	15P Trap Conn. Base			TR012	273 0317 906		Chip Built in R.
CN710	205 0554 054	14P Trap Conn. Base			TR012	273 0317 906		
							, ,	Oh ini Dulla in D
CN703	205 0343 032	3P Conn. Base (KR-PH)		ا ا	TR014	269 0055 900		Chip Built in R.
CN701,702	205 0343 045	4P Conn. Base (KR-PH)		2	TR015	273 0317 906	` '	
CB715	205 0343 045	4P Conn. Base (KR-PH)			TR016	273 0317 906	1 '	
CB716	205 0343 058	5P Conn. Base (KR-PH)			TR019	269 0054 901	Transister DTC144EK	Chip Built in R.
CN711	205 0375 026	12P Conn. Base (KR-PH)						
CN709	205 0375 039	13P Conn. Base (KR-PH)			D001	276 0432 903		
CN708~712	205 0375 042	14P Conn. Base (KR-PH)		2	D002	276 0302 004		
	203 6379 017	4P PH Conn. Cord			D003	276 0302 004		
CB713	203 6379 004	4P PH Conn. Cord			D004	276 0302 004		
CB714	203 8337 002	5P PH Conn. Cord			D005	276 0302 004	Varactor SVC321SPA-D-2	
CN704~706	204 0370 002	5P PH-SAN Conn. Cord		2	D006	276 0432 903	Diode 1SS270A	
CB711	204 6343 004	12P KR-DS Conn. Cord			D007	276 0432 903	Diode 1SS270A	
CB709	204 6340 007	13P KR-DS Conn. Cord			D008	276 0432 903	Diode 1SS270A	
CB708	204 6341 006	14P KR-DS Conn. Cord			D009	276 0432 903	Diode 1SS270A	
CB712	204 6342 005	14P KR-DS Conn. Cord			D010	276 0432 903	Diode 1SS270A	
					RESISTO	RS GROUP (No	included Carbon Film ±5% er to the Scematic Diagram	6,1/4W Type. for those Parts.)
W801.802 803	209 0220 063	Vinyle Wire	L=50	3	R002	247 0006 920	Chip Carbon 330 ohm 1/10W	RM173B331J
W702	209 0220 050	Vinyle Wire	L=90	1	R003	247 0006 920	Chip Carbon 330 ohm 1/10W	RM173B331J
	001 9052 007	Vinyle Wire Gray	L=30	1	R004	247 0005 989	Chip Carbon 220 ohm 1/10W	RM 73B221J
W701	203 0307 001	1P Connector Cord	L=100	1	R005	247 0009 901	Chip Carbon 4.7k ohm 1/10W	RM 73B472J
CB717,718	204 0009 014	2C Shield Wire	L=150	1	R006	247 0006 920	Chip Carbon 330 ohm 1/10W	RM 73B331J
CB719,720	204 0009 027	2C Shield Wire	L=240	1	R007	247 0005 989	Chip Carbon 220 ohm 1/10W	RM 73B221J
	205 0452 017	Style Pin		5	R008	247 0006 962	Chip Carbon 470 ohm 1/10W	RM 73B471J
					R009	241 2400 995	Carbon Film 10k ohm 1/4W	RD 14B2E103J (5)
					R010	241 2401 978	Carbon Film 22k ohm 1/4W	RD 14B2E223J (5)
					R011	247 0010 961		RM 73B223J
					R012	247 0004 980		RM 73B820J
					R013	247 0009 927	Chip Carbon 5.6k ohm 1/10W	RM 73B562J
					R014	247 0010 987	Chip Carbon 27k ohm 1/10W	RMI 73B273J
					R015	247 0009 985	· ·	RM 73B103J
					R016	247 0009 985		
					1		Chip Carbon 10k ohm 1/10W	RM 73B103J
					R017	247 0009 985	Chip Carbon 10k ohm 1/10W	RM 73B103J
					R018	247 0008 960	·	RM 73B332J
					R019	247 0010 961	Chip Carbon 22k ohm 1/10W	RM 73B223J
					R020	247 0011 944	Chip Carbon 47k ohm 1/10W	RM 73B473J
ļ					R022	247 0007 945	Chip Carbon 1k ohm 1/10W	RM 73B102J
					R023	247 0011 960	Chip Carbon 56k ohm 1/10W	M 738563J
			1		R024	247 0008 928	Chip Carbon 2.2k ohm 1/10W	M 73B222J
					R025	247 0012 927	Chip Carbon 100k ohm 1/10W	M 73B104J
		1		- 1	I D007	047 0000 005	Chin Corbon 10k about 1/10M	N. 720 4004
					R027	247 0009 985	Chip Carbon 10k ohm 1/10W	FM 73B103J
					R027	247 0009 960	Chip Carbon 3.3k ohm 1/10W	M 738332J

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
R030	247 0012 969	Chip Carbon 150k ohm 1/10W	RM73B154J	C009	257 0004 961	Chip Ceramic 100pF/50V	CC73SL1H101J
R031	247 0008 960	Chip Carbon 3.3k ohm 1/10W	RM73B332J	C010	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
R032	247 0008 960	Chip Carbon 3.3k ohm 1/10W	RM73B332J	C011	257 0010 900	Chip Ceramic 0.01µF/50V	CK73B1H103K
R033	247 0012 969	Chip Carbon 150k ohm 1/10W	RM73B154J	C012	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
R034	247 0012 969	Chip Carbon 150k ohm 1/10W	RM73B154J	C013	257 0010 942	Chip Ceramic 0.022µF/50V	CK73B1H223K
R035	247 0008 960	Chip Carbon 3.3k ohm 1/10W	RM73B332J	C014	257 0010 900	Chip Ceramic 0.01µF/50V	CK73B1H103K
R036	247 0008 960	Chip Carbon 3.3k ohm 1/10W	RM73B332J	C015	254 4260 977	Electrolytic 4.7 µ F/50V	CE04W1H4R7M
R037	247 0007 945	Chip Carbon 1k ohm 1/10W	RM73B102J	C016	254 4260 964	Electrolytic 3.3µF/50V	CE04W1H3R3M
R038	247 0007 945	Chip Carbon 1k ohm 1/10W	RM73B102J	C017	257 0004 929	Chip Ceramic 68pF/50V	CC73SL1H680J
R041	247 0008 944	Chip Carbon 2.7k ohm 1/10W	RM73B272J	C018	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
R045	247 0002 982	Chip Carbon 12 ohm 1/10W	RM73B120J	C019	257 0010 942	Chip Ceramic 0.022µF/50V	CK73B1H223K
R046 R047	247 0009 985 247 0007 945	Chip Carbon 10k ohm 1/10W	RM73B103J RM73B102J	C020	257 0010 900 257 0010 926	Chip Ceramic 0.01 µF/50V	CK73B1H103K
R048	247 0007 945	Chip Carbon 1k ohm 1/10W Chip Carbon 220k ohm 1/10W	RM73B1023	C021 C022	257 1013 993	Chip Ceramic 0.015µF/50V Chip Ceramic 0.1µF/25V	CK73B1H153K CK73B1E104K
R049	247 0013 900	Chip Carbon 10k ohm 1/10W	RM73B103J	C023	257 0002 963	Chip Ceramic 0.747/23V	CC73SL1H150J
R050	247 0010 961	Chip Carbon 22k ohm 1/10W	RM73B223J	C024	254 3056 933	Electrolytic 3.3µF/50V	CE04D1H3R3MBP
R051	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J	C025	254 3056 904	Electrolytic 0.47µF/50V	CE04D1HR47MBP
R052	247 0011 986	Chip Carbon 68k ohm 1/10W	RM73B683J	C026	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
R053	247 0011 902	Chip Carbon 33k ohm 1/10W	RM73B333J	C027	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
R054	247 0011 902	Chip Carbon 33k ohm 1/10W	RM73B333J	C028	257 1011 982	Chip Ceramic 0.047µF/50V	CK73B1H473K
R055	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J	C029	254 4254 938	Electrolytic 47µF/16V	CE04W1C470M
R056	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J	C030	254 3056 917	Electrolytic 1µF/50V	CE04D1H010MBP
R057	247 0012 927	Chip Carbon 100k ohm 1/10W	RM73B104J	C031	255 4201 984	Plastic Film 560pF/50V	CQ93P1H561J
R058	247 0012 927	Chip Carbon 100k ohm 1/10W	RM73B104J	C032	257 0005 986	Chip Ceramic 330pF/50V	CC73SL1H331J
R059	247 0012 927	Chip Carbon 100k ohm 1/10W	RM73B104J	C033	257 0005 986	Chip Ceramic 330pF/50V	CC73SL1H331J
R060	247 0012 927	Chip Carbon 100k ohm 1/10W	RM73B104J	C034	257 0005 986	Chip Ceramic 330pF/50V	CC73SL1H331J
R061	247 0007 945	Chip Carbon 1k ohm 1/10W	RM73B102J	C035	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
R062	247 0010 961	Chip Carbon 22k ohm 1/10W	RM73B223J	C036	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
R063 R064	247 0008 928 247 0005 989	Chip Carbon 2.2k ohm 1/10W Chip Carbon 220 ohm 1/10W	RM73B222J RM73B221J	C037 C038	257 0002 989 257 0002 989	Chip Ceramic 18pF/50V	CC73SL1H180J
R065	247 0005 989	Chip Carbon 220 ohm 1/10W	RM73B221J	C039	254 4254 909	Chip Ceramic 18pF/50V Electrolytic 10µF/16V	CC73SL1H180J CE04W1C100M
R066	247 0006 962	Chip Carbon 470 ohm 1/10W	RM73B471J	C040	257 0010 900	Chip Ceramic 0.01µF/50V	CK73B1H1 03K
R067	247 0005 905	Chip Carbon 100 ohm 1/10W	RM73B101J	C041	257 0004 929	Chip Ceramic 68pF/50V	CC73SL1H680J
R068	247 0007 945	Chip Carbon 1k ohm 1/10W	RM73B102J	C042	257 0010 926	Chip Ceramic 0.015µF/50V	CK73B1H1 53K
R070	247 0011 944	Chip Carbon 47k ohm 1/10W	RM73B473J	C043	257 0010 942	Chip Ceramic 0.022µF/50V	CK73B1H223K
R081	247 0005 947	Chip Carbon 150 ohm 1/10W	RM73B151J	C044	257 0005 944	Chip Ceramic 220pF/50V	CC73SL1H221J
R101	247 0009 969	Chip Carbon 8.2k ohm 1/10W	RM73B822J	C045	257 0005 915	Chip Ceramic 160pF/50V	CC73SL1H 161J
R102	247 0009 969	Chip Carbon 8.2k ohm 1/10W	RM73B822J	C046	255 4201 942	Plastic Film 390pF/50V	CQ93P1H391J
R103	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J	C047	257 0002 963	Chip Ceramic 15pF/50V	CC73SL1H150J
R104	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J	C048	257 0010 900	Chip Ceramic 0.01µF/50V	CK73B1H1 03K
R105	247 0012 927	Chip Carbon 100k ohm 1/10W	RM73B104J	C049	257 0010 900	Chip Ceramic 0.01µF/50V	CK73B1H1 03K
R106	247 0012 927	Chip Carbon 100k ohm 1/10W	RM73B104J	C050	254 3056 917	Electrolytic 1µF/50V	CE04D1H010MBP
R107	247 0006 962	Chip Carbon 470 ohm 1/10W	RM73B471J	C051	257 0010 942	Chip Ceramic 0.022µF/50V	CK73B1H223K
R108	247 0006 962	Chip Carbon 470 ohm 1/10W	RM73B471J	C053	254 4254 938	Electrolytic 47µF/16V	CE04W10470M
R109 R110	247 0012 969	Chip Carbon 100k ohm 1/10W Chip Carbon 100k ohm 1/10W	RM73B104J RM73B104J	C060 C061	257 0012 966 257 0012 966	Chip Ceramic 0.01µF/50V Chip Ceramic 0.01µF/50V	CK73F1H1 O3Z
R111	247 0012 969		RM73B473J	C061	257 0012 966	Chip Ceramic 0.015µF/50V	CK73F1H1 O3Z CK73B1H1 53K
R112	247 0011 944	·	RM73B473J	C071	257 0010 928	Electrolytic 1 µ F/50V	CE04W1HO10M
R135		Chip Carbon 20k ohm 1/10W	RM73B203J	C099	257 0010 926	Chip Ceramic 0.015µF/50V	CK73B1H1 53K
R136	247 0010 958	1 '	RM73B203J	C101	254 4256 936	Electrolytic 47µF/25V	CE04W1E4-70M
R137		Chip Carbon 100 ohm 1/10W	RM73B101J	C102	254 4256 936	Electrolytic 47µF/25V	CE04W1E470M
R138		Chip Carbon 100 ohm 1/10W	RM73B101J	C103	254 4254 912	Electrolytic 22µF/16V	CE04W10220M
		•		C104	254 4254 912	Electrolytic 22µF/16V	CE04W10220M
Δ1(02) ₁₀ -1 ±	241 2376 964	Clarbon Flim 47 ohm	AD14B2E470JNBS	C105	257 0006 927	Chip Ceramic 470pF/50V	CC73SL1H 471J
				C106	257 0006 927	Chip Ceramic 470pF/50V	CC73SL1H 471J
VR001		Semi Fixed VR. 22k ohm	V06PB223	C107	257 1011 966	Chip Ceramic 0.033µF/50V	CK73B1H3.23K
	ORS GROUP			C108	257 1011 966	Chip Ceramic 0.033µF/50V	CK73B1H3:33K
C001	257 0010 942	·	CK73B1H223K	C109	254 4260 935	Electrolytic 0.47µF/50V	CE04W1HF447M
C002	254 4254 909		CE04W1C100M	C110	254 4260 935	Electrolytic 0.47µF/50V	CE04W1HF₹47M
C003	257 0010 900	·	CK73B1H103K	C111	257 0006 969	Chip Ceramic 680pF/50V	CC73SL1H 681J
C004	257 0010 900	· ·	CK73B1H103K	C112	257 0006 969	Chip Ceramic 680pF/50V	CC73SL1H 681J
C005	257 0010 942	•	CK73B1H223K	C113	257 0010 913	Chip Ceramic 0.012µF/50V	CK73B1H1 23K
C006 C007	257 0010 942	**	CK73B1H223K	C114	257 0010 913	Chip Ceramic 0.012µF/50V	CK73B1H123K
C007	257 0010 942	Chip Ceramic 0.022µF/50V	CK73B1H223K	C115	257 0009 937	Chip Ceramic 2700pF/50V	CK73B1H272K
0000	254 4260 964	Electrolytic 3.3µF/50V	CE04W1H3R3M	C116	257 0009 937	Chip Ceramic 2700pF/50V	CK73B1H272K

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C1171 24 4 2899 06 Eachtofylic 0 1 1 F/50V C69WH HORTM C127 C129 C27 000 5 86 Clip Ceramic 305/F/50V C73SL H331 C27 0 C2	Ref. No.	Part No.	Part Name	Remarks		Ref. No.	Part No.	Part Name	Remarks
C119				CE04W1H0R1M	\dashv	SEMICON	DUCTORS GRO	UP	
C1191 267 0009 986 Clip Ceramic 309/F00V C758.1H331 Clip Ceramic 309/F00V C758.1H331 Clip Ceramic 309/F00V C758.1H331 Clip Ceramic 309/F00V C758.1H331 Clip Ceramic 309/F00V C758.1H31478K Clip Ceramic 309/F00V C758.1H310 Clip Ceramic 309/F00V C758.1H310 Crop Ceramic 309/F00V C758.1H310 Crop Ceramic 309/F00V C758.1H310 C758.1H310 Crop Ceramic 309/F00V C758.1H310 C758.1H310 C758.1H310 Crop Ceramic 309/F00V C758.1H310 C758			•						
C1201 257 0009 986 Disp Ceremic 03019-F509 C73SL1114331 C1202 282 1419 90 C LC78820M C1204 C								IC SM5840CS-L1	
Care Care						1			
C122 27 011 980 Chip Ceramic 0.0114/F30V C/7381H173K C1264 287 1011 982 Chip Ceramic 0.0147/F30V C/7381H173K C1265 284 4800 948 Electrolytic 1.4F/50V C7381H173K C1260 283 0890 006 C1 PAINTT C1260 Paint C127									
C122 257 1011 382 Chip Carmine Ostaria Foldy Cr298H1473K C1269 258 0073 905 C1 CP-N15T Professor Payment Control Foldy C128 257 0009 860 C128 257 0009 860 C128 257 0019 890 C128 C						1		IC ICP-N15T	IC Protector
C124			· · · · · · · · · · · · · · · · · · ·						IC Protector
Carpon C		1	•						Regulator +5V
C122									
C1272 257 0009 586 Clip Ceramic Orgo-F50V CK73811472K C1282			•		- 1				
C129					- 1				
C193			•			1			
C131						l .			µ-com
C132 256 1024 002			•			i			,
C132 256 1034 032 Melalize 0.15 P/SOV CEDMYH1010M T1301 274 0160 907 Translater 2SD2144STPU T1301 274 0160 907 Translater 2SD2144STPU T1301 274 0160 907 Translater 2SD2144STPU T1302 T1302 274 0160 907 Translater 2SD2144STPU T1302 T130					1				
C134						10303	202 1014 000	TO OXIDEOGRA	
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C179			•						•
C138			•		-				Cinp Dane in
C199			· ·						
C140 294 4284 909 Electrolytic 10 F7 160 CEDAWT (C100M C114 257 O014 935 Chip Ceramic 0.1 P7 25V CR73 F1 1042 T8502 289 0054 901 Transister DTC144 CK73 Chip Ceramic 0.1 P7 25V CK73 F1 1042 T8502 289 0054 901 Transister DTC144 CK73 Chip Ceramic 0.1 P7 25V CK73 F1 1042 T8505 289 0054 901 Transister DTC144 CK73 Chip Ceramic 0.1 P7 25V CK73 F1 1032 T8507 289 0054 901 Transister DTC144 CK73 Chip Ceramic 0.1 D1 P7 P7 P7 P7 P7 P7 P7 P			•			1			
C141 27									Chiro Built in B
C142 257 0014 935 Chip Ceramic 0.1µF/25V CK73F1E104Z CK73F									
C144									•
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C145 257 0004 961 Clip Ceramic 100pF/50V CC73SL1H101J TR509 269 0054 901 Transister DTC144EK Clip Built in R. C146 257 0004 961 Clip Ceramic 100pF/50V CC73SL1H101J TR511 269 0058 901 Transister DTC144EK Clip Built in R. C17002 213 0034 009 Transister DTC144EK Clip Built in R. C17002 213 0034 009 Transister DTC144EK Clip Built in R. C17002 213 0034 009 Transister DTC144EK Clip Built in R. C17002 213 0034 009 Transister DTC144EK Clip Built in R. C17002 213 0034 009 Transister DTC144EK Clip Built in R. C17002 Clip Built in R. C17003 Clip B		1			- 1				
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OTHER GROUP			Trimmer Condenser			DOS.	070 0550 005	Diada 10005 0004	
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CF001,002 261 0064 007 FM C.Filter SFZ150A 1 0355 276 0553 905 010de 1SR35-200A SFZ250A 1 0355 276 0553 905 010de 1SR35-200A SFZ250A 1 0355 276 0553 905 010de 1SR35-200A SFZ250A 1 0356 276 0462 915 010de 1SR35-200A SFZ250A 1 0502 276 0462 915 010de 1SR35-200A SFZ250A 010de 1SZ250A 010de 1SZ	OTHER G	ROUP			+				
CF003 261 0046 009 AM C.Filter SF2450A 1 D355 276 0553 905 Diode 1SR35-200A CF004 261 0101 009 AM C.Filter BFU450C4N 1 D356 276 0553 905 Diode 1SR35-200A CF005 261 0103 007 Ceramic Vibrator CSB456F11 1 D356 276 0553 905 Diode 1SR35-200A D356 276 0553 905 Diode 1SR35-200A D356 276 0553 905 Diode 1SR35-200A D358		_	,		1, ,1	1			
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T002 231 2906 007 FM F Det (B) 1 D504 276 0462 915 Zener Diode HZS6B-2 6/	LP002	l .			1				
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T012 231 0923 008 MW Ant. Trans T014 231 1130 007 MW OSC Coil T011 231 1133 004 LW Ant. Trans T013 231 1133 004 LW Ant. Trans T014 231 1135 002 LW OSC Coil T015 231 1135 002 LW OSC Coil T016 231 1135 002 LW OSC Coil T017 231 1135 002 LW OSC Coil T018 231 1135 002 LW OSC Coil T019 205 0603 002 Crystal Vibrator (7.2MHz) T019 205 0603 002 3P Ant. Terminal (DIN) T019 205 0603 002 Ocopper Wire (L=20) T019 001 9032 030 Copper Wire (L=20) T019 002 030 Copper Wire (L=35) T019 001 9032 031 Copper Wire (L=35) T019 001 9032 031 Copper Wire (L=35) T019 001 9032 031 Ocopper Wire (L=35) T019 001 9032	T002	231 2906 007			1				i
T014 231 1130 007 MW OSC Coil T011 231 1133 004 LW Ant. Trans T013 231 1135 002 LW OSC Coil X001 399 0075 003 Crystal Vibrator (7.2MHz) TE001 205 0603 002 At 1	T003	231 3903 009	AM IFT	}	11				i
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T013	T014	231 1130 007	MW OSC Coil		11				l .
X001 399 0075 003 Crystal Vibrator (7.2MHz) 1 D603 276 0462 915 Zener Diode HZS6B-2 67	T011	231 1133 004	LW Ant. Trans		1				l
D604 276 0462 915 Zener Diode HZS6B-2 67	T013	231 1135 002	LW OSC Coil		1				
TE001	X001	399 0075 003	Crystal Vibrator (7.2MHz)		1	D603			
A14 9123 103 Earth Plate 1 D606 276 0432 903 Diode 1SS270A Diode 1SS270A D607 276 0432 903 Diode 1SS270A D607 276 0432 903 Diode 1SS270A D608 D612 393 9509 006 LED LN38GPPN D608 D612 393 9509 006 LED LN38GPPN D608					1 1	D604		Zener Diode HZS6B-2	6Y
CN5A,5B	TE001	205 0603 002	3P Ant. Terminal (DIN)		1	D605			
Decision Comparison Compa		414 9123 103	Earth Plate		1	D606	276 0432 903	Diode 1SS270A	
CN5A,5B 205 0536 072 5P Conn. Socket 2 RESISTORS GROUP (Not Included Carbon Film ±5% / WW Type: Tobas Parts.) R301 247 0006 962 Chip Carbon 470 ohm 1/10W R/I 738471 R302 247 0006 962 Chip Carbon 470 ohm 1/10W R/I 738471 R303 247 0006 962 Chip Carbon 470 ohm 1/10W R/I 738471 R304 247 0006 962 Chip Carbon 470 ohm 1/10W R/I 738471 R304 247 0006 962 Chip Carbon 470 ohm 1/10W R/I 738471 R304 247 0006 962 Chip Carbon 470 ohm 1/10W R/I 738471 R304 247 0006 962 Chip Carbon 470 ohm 1/10W R/I 738471 R304 247 0006 962 Chip Carbon 470 ohm 1/10W R/I 738471 R305 R306 247 0007 945 Chip Carbon 18 ohm 1/10W R/I 738102 R306 247 0007 945 Chip Carbon 18 ohm 1/10W R/I 738102 R306 247 0007 945 Chip Carbon 18 ohm 1/10W R/I 738102 R306 247 0007 945 Chip Carbon 18 ohm 1/10W R/I 738102 R306 247 0007 945 Chip Carbon 18 ohm 1/10W R/I 738102 R306 247 0007 945 Chip Carbon 18 ohm 1/10W R/I 738102 R306 247 0007 945 Chip Carbon 18 ohm 1/10W R/I 738102 R306 247 0007 945 Chip Carbon 18 ohm 1/10W R/I 738102 R306 247 0007 945 Chip Carbon 18 ohm 1/10W R/I 738102 R306 247 0007 945 Chip Carbon 18 ohm 1/10W R/I 738102 R306 247 0007 945 Chip Carbon 18 ohm 1/10W R/I 738102 R307		001 9032 030	Copper Wire (L=20)		1	D607	276 0432 903	Diode 1SS270A	
CN5A,5B		1			1	D608	276 0432 903	Diode 1SS270A	
CN8A							393 9509 006	LED LN38GPPN	Geren
CN8A	CN5A.5B	205 0536 072	5P Conn. Socket	1	2	RESISTO	RS GROUP (Not	included Carbon Film 土5% er to the Scematic Diagram	6, /AW Type.
CN10B. CN12A					11				
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TP001 205 0343 045 4P Conn. Base (KR-PH) 1 R304 247 0006 962 Chip Carbon 470 ohm 1/10W R/I 738471J R306 247 0007 945 Chip Carbon 1k ohm 1/10W Chip Carbon 1k ohm 1/10W R/I 738102J R307 247 0007 945 Chip Carbon 1k ohm 1/10W Chip Carbon 1k ohm 1/10W R/I 738102J R307 247 0007 945 Chip Carbon 1k ohm 1/10W Chip Carbon 1k ohm 1/10W R/I 738102J R307 247 0007 945 Chip Carbon 1k ohm 1/10W Chip Carbon 1k ohm 1/10W R/I 738102J R307 247 0007 945 Chip Carbon 1k ohm 1/10W R/I 738102J R307 247 0007 945 Chip Carbon 1k ohm 1/10W R/I 738102J R307 247 0007 945 Chip Carbon 1k ohm 1/10W R/I 738102J R307 247 0007 945 Chip Carbon 1k ohm 1/10W R/I 738102J R307 247 0007 945 Chip Carbon 1k ohm 1/10W R/I 738102J R307 247 0007 945 Chip Carbon 1k ohm 1/10W R/I 738102J R307 247 0007 945 Chip Carbon 1k ohm 1/10W R/I 738102J R307 247 0007 945 Chip Carbon 1k ohm 1/10W R/I 738102J R307 247 0007 945 Chip Carbon 1k ohm 1/10W R/I 738102J R307 247 0007 945 Chip Carbon 1k ohm 1/10W R/I 738102J R307 247 0007 945 Chip Carbon 1k ohm 1/10W R/I 738102J R307 247 0007 945 Chip Carbon 1k ohm 1/10W R/I 738102J R307 247 0007 945 Chip Carbon 1k ohm 1/10W R/I 738102J R307 247 0007 945 Chip Carbon 1k ohm 1/10W R/I 738102J R307 247 0007 945 Chip Carbon 1k ohm 1/10W R/I 738102J R307 247 0007 945 Chip Carbon 1k ohm 1/10W R308102J R308					1 1	1			
CN001 204 0398 000 6P PH Conn. Cord B-IN 1 R305 247 0007 945 Chip Carbon 1k ohm 1/10W R/4 73B102J R306 247 0007 945 Chip Carbon 1k ohm 1/10W R/4 73B102J R307 247 0007 945 Chip Carbon 1k ohm 1/10W R308102J R307 247 0007 945 Chip Carbon 1k ohm 1/10W R308102J R307 247 0007 945 Chip Carbon 1k ohm 1/10W R308102J R308					1 1	1		' company of the comp	1
R306 247 0007 945 Chip Carbon 1k ohm 1/10W R/I 73B102J R307 247 0007 945 Chip Carbon 1k ohm 1/10W R/I 73B102J					1 . 1	l .			
R307 247 0007 945 Chip Carbon 1k ohm 1/10W R/A 73B102J	SINUU I	204 0396 000	Or THE COMM. CORG BEING			1			
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						R312		l and the second	RA 738OROK

Ref. No.	Part No.	· Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
R315	247 0010 990	Chip Carbon 30k ohm 1/10W	RM73B303J	R511	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J
R316	247 0010 990	Chip Carbon 30k ohm 1/10W	RM73B303J	R512	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J
R317	247 0007 903	Chip Carbon 680 ohm 1/10W	RM73B681J	R514	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J
R318	247 0007 903	Chip Carbon 680 ohm 1/10W	RM73B681J	R515	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J
R319	247 0009 901	Chip Carbon 4.7k ohm 1/10W	RM73B472J	R516	247 0005 905	Chip Carbon 100 ohm 1/10W	RM73B101J
R320	247 0009 901	Chip Carbon 4.7k ohm 1/10W	RM73B472J	R517	247 0005 905	Chip Carbon 100 ohm 1/10W	RM73B101J
R321	247 0005 905	Chip Carbon 100 ohm 1/10W	RM73B101J	R518	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J
R322	247 0005 905	Chip Carbon 100 ohm 1/10W	RM73B101J	R521	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J
R339	247 0012 998	Chip Carbon 200k ohm 1/10W	RM73B204J	R522	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J
R401	247 0003 949	Chip Carbon 22 ohm 1/10W	RM73B220J	R524	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J
R402	247 0005 976	Chip Carbon 200 ohm 1/10W	RM73B201J	R527	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J
R403	247 0008 902	Chip Carbon 1.8k ohm 1/10W	RM73B182J	R528	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J
R404	247 0009 969	Chip Carbon 8.2k ohm 1/10W	RM73B822J	R530	247 0011 944	Chip Carbon 47k ohm 1/10W	RM73B473J
R405	247 0010 903	Chip Carbon 12k ohm 1/10W	RM73B123J	R531	247 0014 967	Chip Carbon 1M ohm 1/10W	RM73B105J
R406	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J	R533	247 0011 944	Chip Carbon 47k ohm 1/10W	RM73B473J
R407	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J	R534	247 0011 944	Chip Carbon 47k ohm 1/10W	RM73B473J
R408	245 2370 946	Metal Film 33k ohm 1/4W	RN14K2E333F (5)	R601	247 0011 944	Chip Carbon 47k ohm 1/10W	RM73B473J
R409	245 2370 904	Metal Film 22k ohm 1/4W	RN14K2E223F (5)	R602	247 0011 944	Chip Carbon 47k ohm 1/10W	RM73B473J
R410	245 2370 946	Metal Film 33k ohm 1/4W	RN14K2E333F (5)	R603	247 0011 944	Chip Carbon 47k ohm 1/10W	RM73B473J
R411	247 0012 901	Chip Carbon 82k ohm 1/10W	RM73B823J	R604	247 0011 944	•	i
R412	247 0012 901	Chip Carbon 12k ohm 1/10W	RM73B023J	R605	247 0011 944	Chip Carbon 47k ohm 1/10W	RM73B473J
R413	247 0010 903	Chip Carbon 33k ohm 1/10W	RM73B333J	R606	247 0011 944	Chip Carbon 47k ohm 1/10W	RM73B473J
R414	247 0011 902				1	Chip Carbon 47k ohm 1/10W	RM73B473J
	247 0010 981	Chip Carbon 22k ohm 1/10W	RM73B223J	R607	247 0011 944	Chip Carbon 47k ohm 1/10W	RM73B473J
R415		Chip Carbon 33k ohm 1/10W	RM73B333J	R608	247 0011 944	Chip Carbon 47k ohm 1/10W	RM73B473J
R416	247 0010 961	Chip Carbon 22k ohm 1/10W	RM73B223J	R609	247 0005 992	Chip Carbon 240 ohm 1/10W	RM73B241J
R419	245 2369 902	Metal Film 8.2k ohm 1/4W	RN14K2E822F (5)	145.404			
R420	247 0010 961	Chip Carbon 22k ohm 1/10W	RM73B223J	VR401	211 6087 931	Semi Fixed VR 4.7k ohm	V06PB472
R421	247 0008 960	Chip Carbon 3.3k ohm 1/10W	RM73B332J	VR402	211 6087 928	Semi Fixed VR 100k ohm	V06PB472
R422	247 0005 905	Chip Carbon 100 ohm 1/10W	RM73B101J		ORS GROUP		
R423	247 0007 945	Chip Carbon 1k ohm 1/10W	RM73B102J	C300	257 0011 996	Chip Ceramic 0.1 µF/25V	CK73B1E1 04K
R424	247 0004 922	Chip Carbon 470 ohm 1/10W	RM73B470J	C301	254 4252 930	Electrolytic 100µF/10V	CE04W1A101M
R425	247 0011 902	Chip Carbon 33k ohm 1/10W	RM73B333J	C302	254 4252 930	Electrolytic 100µF/10V	CE04W1A101M
R426	247 0011 902	Chip Carbon 33k ohm 1/10W	RM73B333J	C303	257 0010 900	Chip Ceramic 0.01µF/50V	CK73B1H1 03K
R427	247 0011 902	Chip Carbon 33k ohm 1/10W	RM73B333J	C304	257 0005 973	Chip Ceramic 300pF/50V	CC73SL1H301J
R428	247 0009 972	Chip Carbon 9.1k ohm 1/10W	RM73B912J	C305	257 0010 900	Chip Ceramic 0.01µF/50V	CK73B1H1 03K
R429	247 0008 931	Chip Carbon 2.4k ohm 1/10W	RM73B242J	C307	254 4254 938	Electrolytic 47µF/16V	CE04W10470M
R430	247 0008 931	Chip Carbon 2.4k ohm 1/10W	RM73B242J	C308	254 4254 938	Electrolytic 47µF/16V	CE04W10470M
R431	247 0005 905	Chip Carbon 100 ohm 1/10W	RM73B101J	C311	254 6172 005	Electrolytic 100 µF/16V	CE04W10101M (RA2)
R432	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J	C312	254 6172 005	Electrolytic 100 µ F/16V	CE04W10101M (RA2)
R433	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J	C313	257 0010 900	Chip Ceramic 0.01µF/50V	CK73B1H1 03K
R434	247 0009 943	Chip Carbon 6.8k ohm 1/10W	RM73B682J	C315	257 0004 961	Chip Ceramic 100pF/50V	CC73SL1H 101J
R435	247 0009 956	Chip Carbon 7.5k ohm 1/10W	RM73B752J	C316	257 0004 961	Chip Ceramic 100pF/50V	CC73SL1H 101J
R436	247 0010 961	Chip Carbon 22k ohm 1/10W	RM73B223J	C320	257 0012 966	Chip Ceramic 0.01µF/50V	CK73F1H1 03Z
R437	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J	C321	253 1146 907	Ceramic 0.01 µF/50V	CK45F1H1 03Z
R438	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J	C322	253 1024 003	Ceramic 0.01 µF/50V	CK45F1H1 03Z
R439	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J	C350	257 0010 900	Chip Ceramic 0.01µF/50V	CK73B1H1 03K
R440	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J	C351	257 0010 900	Chip Ceramic 0.01µF/50V	CK73B1H1 03K
R441	247 0011 944	Chip Carbon 47k ohm 1/10W	RM73B473J	C352	254 4256 949	Electrolytic 100 µ F/25V	CE04W1E1 01M
R442	247 0009 956	Chip Carbon 7.5k ohm 1/10W	RM73B752J	C353	254 4256 949	Electrolytic 100µF/25V	CE04W1E1 01M
R443	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J	C354	257 0010 900	Chip Ceramic 0.01µF/50V	CK73B1H1 03K
R444	247 0008 931	Chip Carbon 2.4k ohm 1/10W	RM73B242J	C356	254 4254 941	Electrolytic 100µF/16V	CE04W101 01M
R445	247 0011 944	Chip Carbon 47k ohm 1/10W	RM73B473J	C401	254 4254 909	Electrolytic 10µF/16V	CE04W101 00M
R446	245 2370 946	Metal Film 33k ohm 1/4W	RN14K2E333F (5)	C402	254 4254 909	Electrolytic 10µF/16V	CE04W101 00M
R450	247 0011 902	Chip Carbon 33k ohm 1/10W	RM73B333J	C403	254 4254 909	Electrolytic 100 µ F/6.3V	CE04W0J1 © 1M
R460	247 0010 987	Chip Carbon 27k ohm 1/10W	RM73B273J	C404	257 0004 961	Chip Ceramic 100pF/50V	The state of the s
R461	247 0010 907	Chip Carbon 33k ohm 1/10W	RM73B333J	C405	254 4254 909	Electrolytic 10µF/16V	CC73SL1H 101J
R501	247 0011 302	Chip Carbon 10k ohm 1/10W	RM73B103J	C406	257 1010 938	Chip Ceramic 2700pF/50V	CE04W101 00M
R502	247 0008 928	Chip Carbon 2.2k ohm 1/10W	RM73B222J	C407	257 1010 938		CK73B1H272K
R503	247 0008 928	Chip Carbon 2.2k ohm 1/10W	RM73B222J			Chip Ceramic 0.033 µF/50V	CK73B1H3.23K
R504	247 0008 928	•	RM73B103J	C408	257 0009 924	Chip Ceramic 2200pF/50V	CK73B1H2 22K
		Chip Carbon 10k ohm 1/10W	i i	C409	254 4260 935	Electrolytic 0.47µF/50V	CE04W1HF347M
R505	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J	C410	257 0010 900	Chip Ceramic 0.01µF/50V	CK73B1H₁ Ø3K
R506	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J	C411	254 4254 909	Electrolytic 10µF/16V	CE04W101 00M
R508	247 0009 943	Chip Carbon 6.8k ohm 1/10W	RM73B682J	C412	254 4260 935	Electrolytic 0.47 µ F/50V	CE04W1HFX47M
R509	247 0008 960	Chip Carbon 3.3k ohm 1/10W	RM73B332J	C413	257 1011 995	Chip Ceramic 0.056µF/50V	CK73B1H5€3K
R510	247 0009 985	Chip Carbon 10k ohm 1/10W	RM73B103J	C414	257 0010 955	Chip Ceramic 0.027µF/50V	CK73B1H273K

KU-9260B AMP UNIT PARTS LIST

CALIFORM CALIFORM	Ref. No.	Part No.	Part Name	Remarks		Ref. No.	Par	t No.	Part Name	Remarks
C417					\dashv		J			Homano
C419										T
CA19										Regulator +6V
CA190						ŀ	1		, ,	
CA20									The state of the s	negulator 104
C421 254 4254 609 File-Chick Chemic 5006p+750 C5084W11070M		1								
C423					ı	1				
C424 284 4280 948 Electrolytic 12F/50V C6249										
C4265 297 0019 902 Chip Carrantic Olity-Floy C4739 H19182 C472 287 C470 C472 C					- 1	1				
C426 245 267 261 262 26			•		- 1					
CASP 254 4259 297			•		- 1					p-com.
C427			•							1
C450 257 0018 980 Chip Ceramic 1001pF/SW C57831+H102K C574781+H22K C5						10801	263 04	4/6 002	IC LB1639	
C431										Duille in Decision
C432 25 7 0010 90										
C439 27 0019 90 Chip Ceramic 0.011F/50V CK7381H102K C460 287 0012 966 Chip Ceramic 0.011F/50V CK7381H102K C461 287 0012 966 Chip Ceramic 0.011F/50V CK7381H103Z C462 283 1146 907 Ceramic 0.011F/50V CK46F1H103Z C462 283 1146 907 Ceramic 0.011F/50V CK46F1H103Z C462 287 0011 966 Chip Ceramic 0.111F/50V CK46F1H103Z C462 287 0011 966 Chip Ceramic 0.011F/50V CK7381H103Z C462 287 0011 966 Chip Ceramic 0.011F/50V CK7381H103Z C462 287 0011 960 Chip Ceramic 0.011F/50V CK7381H103Z C462					1	i				
C450 257 0012 986 Chip Caramia 0.016/F30V CK7381H102K C450 257 0012 986 Chip Caramia 0.016/F30V CK7381H103Z C501 257 0012 986 Chip Caramia 0.016/F30V CK7381H103Z T8105 259 0020 996 Transister Z8C1746(E) T8105 273 0338 096 Transister Z8C1746(E) T8105			l .			ı				
C460						ł				
C450 257 0012 965 Chip Ceramic 0.01 F/50V CK/3F H1032 C501 264 4250 929 Electrolycic 100 F/53 V CEMAWQL/101M F/110 271 0205 003 Transister ZSQ13F M/6) C502 257 0011 996 Chip Ceramic 0.10 F/50V CK/3B H1032 C505 277 0011 996 Chip Ceramic 0.10 F/50V CK/3B H1032 C506 277 0011 996 Chip Ceramic 0.10 F/50V CK/3B H1032 C506 277 0011 996 Chip Ceramic 0.10 F/50V CK/3B H1032 C506 277 0011 996 Chip Ceramic 0.10 F/50V CK/3B H1032 C506 277 0011 996 Chip Ceramic 0.10 F/50V CK/3B H1032 C506 277 0011 996 Chip Ceramic 0.10 F/50V CK/3B H1032 C506 277 0011 997 Chip Ceramic 0.10 F/50V CK/3B H1032 C506 C506 277 0019 970 Chip Ceramic 0.10 F/50V CK/3B H1032 C506										
C450						1				Built in Resistor
C501							1		, ,	
C503							i e		17,	
C504 256 268 948 Electrolytic 1 1-1/50 C504 C505 C505 C507 C507 C508 C509 C507 C508 C509			•						"/ \ '	
C505						1				Built in Resistor
C506 257 0019 908 Ohip Ceramic 0.10F/52V CK7381H15ZK TR116 272 0033 908 Transister 28647A D) C507 254 4250 332 Electrolytic 220µF/6.3V CK7381E104K			•			1			· ·	
C506			·			l .			Transister 2SC1740S(E)	
C507			•	CK73B1H152K					· ·	
C509		257 0011 996	Chip Ceramic 0.1µF/25V	CK73B1E104K			272 01	07 906		
C509			Electrolytic 220 µF/6.3V	CE04W0J221M					Transister 2SC1740S(E)	
C510		257 0011 996	Chip Ceramic 0.1 µF/25V	CK73B1E104K			273 03	888 906	Transister 2SC1740S(E)	
C511 257 0006 927 Chip Ceramic 470pF/50V CC73SL1H471J C512 257 0009 327 Chip Ceramic 470pF/50V CC73SL1H471J C518 257 0012 966 Chip Ceramic 0.01uF/50V CK45F1H103Z C520 253 1146 907 Ceramic 0.01uF/50V CK45F1H103Z C521 253 1146 907 Ceramic 0.01uF/50V CK45F1H103Z C522 257 0012 966 Chip Ceramic 0.01uF/50V CK73F1H103Z C522 257 0012 966 Chip Ceramic 0.01uF/50V CK73F1H103Z C523 257 0012 966 Chip Ceramic 0.01uF/50V CK73F1H103Z C523 257 0012 966 Chip Ceramic 0.01uF/50V CK73F1H103Z C523 257 0012 966 Chip Ceramic 0.01uF/50V CK73F1H103Z C520 257 0012 966 Chip Ceramic 0.01uF/50V CK73F1H103Z C520 257 0012 966 Chip Ceramic 0.01uF/50V CK73F1H103Z C520 257 0012 966 Chip Ceramic 0.01uF/50V CK73F1H103Z C520 257 0012 966 Chip Ceramic 0.01uF/50V CK73F1H103Z C520 257 0012 966 Chip Ceramic 0.01uF/50V CK73F1H103Z C520 257 0012 966 Chip Ceramic Voltaror C521 250 4101 7 act Switch 212 5604 410 7 act Switch 212 5604 410 7 act Switch C6301 205 0185 038 39 0115 002 Ceramic Vibrator C530 399 0115 002 Ceramic Vibrator C530 12 500 430 68 5P Conn. Base (KR-PH) C6404 205 0343 068 5P Conn. Base (KR-PH) C6401 205 0343 067 8P Conn. Base (KR-PH) C6402 205 0343 067 8P Conn. Base (KR-PH) C6404 205 0343 067 8P Conn. Base (KR-PH) C6404 205 0343 067 8P Conn. Base (KR-PH) C6404 205 0343 067 8P Conn. Base (KR-PH) C6404 205 0343 067 8P Conn. Base (KR-PH) C6404 205 0343 067 8P Conn. Base (KR-PH) C6404 205 0343 067 8P Conn. Base (KR-PH) C6404 205 0343 067 8P Conn. Base (KR-PH) C6404 205 0343 067 8P Conn. Base (KR-PH) C6404 205 0343 067 8P Conn. Base (KR-PH) C6404 205 0343 067 8P Conn. Base (KR-PH) C6404 205 0343 067 8P Conn. Base (KR-PH) C6404 205 0343 067 8P Conn. Base (KR-PH) C6404 205 0343 067 8P Conn. Base (KR-PH) C6404 205 0343 067 8P Conn. Base (KR-PH) C6404 205 0343 067 8P Conn. Base (KR-PH) C6404 205 0343 067 8P Conn. Base (KR-PH) C6404 205 0343 067 8P Conn. Base (KR-PH) C6404 205 0343 067 8P Conn. Base (KR-PH) C6504 205 0343 067 8P Conn. Base (KR-PH) C6505 205 0343 067 8P Conn. Base (KR-PH) C6506 205 035 050 0100d 15R35-200A C6301 207 067 057 0		257 0001 977	Chip Ceramic 5pF/50V	CC73SL1H5R0C		TR305	273 03	888 906	Transister 2SC1740S(E)	
C512	C510	257 0001 977	Chip Ceramic 5pF/50V	CC73SL1H5R0C		TR307	273 03	888 906	Transister 2SC1740S(E)	
C518		257 0006 927	Chip Ceramic 470pF/50V	CC73SL1H471J		TR310	273 03	88 906	Transister 2SC1740S(E)	
C520	C512	257 0006 927	Chip Ceramic 470pF/50V	CC73SL1H471J		TR312	273 03	88 906	Transister 2SC1740S(E)	
C521 253 146 907 Ceramic 0.01 μF/50V CK45F1H103Z CK252 257 7012 966 Chip Ceramic 0.01 μF/50V CK73F1H103Z CK73F1H103	C518	257 0012 966	Chip Ceramic 0.01µF/50V	CK73F1H103Z		TR314	273 03	88 906	Transister 2SC1740SE)	
C522 257 0012 966 Chip Ceramic 0.01 \(\text{CF3} \) CK73F1H103Z TR320 269 0020 906 Transister DTC114Es Transister 2SC1740SE) C523 257 0012 966 Chip Ceramic 0.01 \(\text{LF}/\text{FOV} \) CK73F1H103Z TR601 TR602 269 0107 900 Transister RN1241 \(\text{LF} \) Built in Resistor DTC14Es TR501 TR602 269 0107 900 Transister RN1241 \(\text{LF} \) Built in Resistor DTC14Es TR601 TR602 269 0107 900 Transister RN1241 \(\text{LF} \) Built in Resistor DTC14Es TR601 TR602 269 0107 900 Transister RN1241 \(\text{LF} \) Built in Resistor DTC14Es TR601 TR602 269 0107 900 Transister RN1241 \(\text{LF} \) Built in Resistor DTC14Es TR601 TR602 269 0107 900 Transister RN1241 \(\text{LF} \) Built in Resistor DTC14Es TR601 TR602 269 0107 900 Transister RN1241 \(\text{LF} \) Built in Resistor DTC14Es TR601 TR602 269 0107 900 Transister RN1241 \(\text{LF} \) Built in Resistor DTC14Es TR601 TR602 269 0107 900 Transister RN1241 \(\text{LF} \) Built in Resistor DTC14Es TR601 TR602 269 0107 900 Transister RN1241 \(\text{LF} \) Built in Resistor DTC14Es TR601 TR602 269 0107 900 Transister RN1241 \(\text{LF} \) Built in Resistor DTC14Es TR601 TR602 269 0107 900 Transister RN1241 \(\text{LF} \) Built in Resistor DTC14Es TR601 TR602 276 0553 905 Diode 1SR35-200A Diod	C520	253 1146 907	Ceramic 0.01 µF/50V	CK45F1H103Z		TR318	269 00	20 906	Transister DTC114E5	Built in Resistor
C523 257 0012 966 Chip Ceramic 0.01μF/50V CK73F1H103Z C530 267 0012 966 Chip Ceramic 0.01μF/50V CK73F1H103Z TR601 269 0107 900 Transister RN1241 (AB) Transiste	C521	253 1146 907	Ceramic 0.01 µF/50V	CK45F1H103Z		TR319	269 00	93 904	Transister DTA144ES	Built in Resistor
C530 257 0012 966 Chip Ceramic 0.01μF/50V CK73F1H103Z TR601 TR602 269 0107 900 Transister RN1241 (ÆB) Full tin Resistor Built in		257 0012 966	Chip Ceramic 0.01µF/50V	CK73F1H103Z		TR320	269 00	20 906	Transister DTC114E5	Built in Resistor
OTHER GROUP	C523	257 0012 966	Chip Ceramic 0.01µF/50V	CK73F1H103Z		TR501	273 03	88 906	Transister 2SC1740SE)	
Name	C530	257 0012 966	Chip Ceramic 0.01µF/50V	CK73F1H103Z		TR601	269 01	07 900	Transister RN1241 (AB)	Built in Resistor
X501 X501 X502 399 9018 003 Ceramic Vibrator CST 4.00 MGW 1 D102 276 0533 905 D10de 15R35-200A D1	OTHER C	GROUP		Q	l'ty	TR602	269 01	07 900	Transister RN1241 (AB)	Built in Resistor
X501 X502 399 9018 003 Ceramic Vibrator CST 4.00 MGW TSA16.93MX 1 D102 276 0553 905 Diode 1SR35-200A D104 D104 276 0432 903 Diode 1SS270A D104 D106 D10		_	(P.W.Board)	(1)					
X502 399 0115 002 Ceramic Vibrator CSA16.93MX 1 D103 276 0553 905 Dlode 1SR35-200A D104 276 0432 903 Dlode 1SS270A D104 1S		212 5604 910	Tact Switch	!	9	△ D101	276 DS	38 007	Diode S4VB20F	Bridge et al. No.
CC301 205 0185 038 3P Wire Holder CB404 205 0343 058 5P Conn. Base (KR-PH) CB401 205 0343 074 7P Conn. Base (KR-PH) CB402 205 0343 087 8P Conn. Base (KR-PH) TP404,405 205 0726 093 022 2P NH Conn. Base CB502A 205 0727 098 CB503 205 0741 003 CC301 203 4493 089 C	X501	399 9018 003	Ceramic Vibrator	CST 4.00 MGW	1	D102	276 05	53 905	Diode 1SR35-200A	
CC301	X502	399 0115 002	Ceramic Vibrator	CSA16.93MX	1	D103	276 05	53 905	Diode 1SR35-200A	
CB404						D104	276 04	32 903	Diode 1SS270A	
CB404	CC301	205 0185 038	3P Wire Holder	-	1	D106	276 04	32 903		
CB403	CB404	205 0343 058	5P Conn. Base (KR-PH)		1	D108	276 04	32 903		
CB401 205 0343 074 7P Conn. Base (KR-PH) 1 D111 276 0553 905 Diode 1SR35-200A CB402 205 0343 087 8P Conn. Base (KR-PH) 1 D112 276 0553 905 Diode 1SR35-200A CB301 205 0233 032 3P NH Conn. Base 2 D113 276 0553 905 Diode 1SR35-200A CB502A 205 0726 099 10P Bottom Socket 1 D115 276 0553 905 Diode 1SR35-200A CB503 205 0727 098 10P Bottom Plug 1 D116 276 0553 905 Diode 1SR35-200A CB503 205 0741 003 13P Trap Conn. Base 1 D117 276 0553 905 Diode 1SR35-200A CC301 203 4493 089 13P Trap Conn. Cord L=100 1 D301 276 0553 905 Diode 1SR35-200A CB503 205 <td>CB403</td> <td>205 0343 061</td> <td>6P Conn. Base (KR-PH)</td> <td></td> <td>1</td> <td>D110</td> <td></td> <td></td> <td></td> <td></td>	CB403	205 0343 061	6P Conn. Base (KR-PH)		1	D110				
CB402 205 0343 087 8P Conn. Base (KR-PH) 1 D112 276 0553 905 Diode 1SR35-200A CB301 205 0233 032 2P NH Conn. Base 1 D114 276 0553 905 Diode 1SR35-200A CB502A 205 0726 099 10P Bottom Socket 1 D115 276 0553 905 Diode 1SR35-200A CB502B 205 0727 098 10P Bottom Plug 1 D116 276 0553 905 Diode 1SR35-200A CB503 205 0741 003 13P Trap Conn. Base 1 D117 276 0553 905 Diode 1SR35-200A CC301 203 4493 089 3P EH Conn. Cord L=100 1 D301 276 0553 905 Diode 1SR35-200A D500 276 0531 901 Diode 1SR35-200A Diode 1SR35-200A D506 276 0533 905 Diode 1SR35-200A Diode 1SR35-200A	CB401	205 0343 074	7P Conn. Base (KR-PH)		1	D111				
TP404,405 CB301 205 0133 022 2P NH Conn. Base CB502A CB502A CB502B CB503 CC301 205 0727 098 CB503 CC301 207 0741 003 CC301 208 CB503 CC301 209 0741 003 0741 07404,405 CB503 CC301 207 0741 075 0741 075 0741 075 075 075 075 075 075 075 075 075 075	CB402	205 0343 087	8P Conn. Base (KR-PH)		1	D112				
CB301	TP404,405	205 0133 022		1:	2	1	276 05	53 905		
CB502A	CB301					1				
CB502B	CB502A				- 1 /	1				
CB503					- 1 1	1				
CC301 203 4493 089 3P EH Conn. Cord L=100 1 D301 276 0503 900 Diode 1SS198 D500 276 0503 901 Diode 1SS198 D500 276 0531 901 Diode 1SS254 D506 276 0432 903 Diode 1SS270A D507 276 0531 901 Diode 1SS254 D508 276 0531 901 Diode 1SS254 D508 276 0531 901 Diode 1SS254 D509 276 0531 901 Diode 1SS254 D509 276 0531 901 Diode 1SS254 D509 276 0531 901 Diode 1SS254 D509 276 0531 901 Diode 1SS254 D509 276 0531 901 Diode 1SS254 D509 D510 276 0531 901 Diode 1SS254	CB503				- 11	i I				
D302 276 0503 900 Diode 1SS198 D500 276 0531 901 Diode 1SS254 D505 276 0553 905 Diode 1SR35-200A D506 276 0432 903 Diode 1SS270A D507 276 0531 901 Diode 1SS254 D508 276 0531 901 Diode 1SS254 D509 276 0531 901 Diode 1SS254 D510 276 0531 901 Diode 1SS254	CC301		· · · · · · · · · · · · · · · · · · ·		- 11					
D500 276 0531 901 Diode 1SS254 D505 276 0553 905 Diode 1SR35-200A D506 276 0432 903 Diode 1SS270A D507 276 0531 901 Diode 1SS254 D508 276 0531 901 Diode 1SS254 D509 276 0531 901 Diode 1SS254 D510 276 0531 901 Diode 1SS254						1				
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D506 276 0432 903 Diode 1SS270A D507 276 0531 901 Diode 1SS254 D508 276 0531 901 Diode 1SS254 D509 276 0531 901 Diode 1SS254 D510 276 0531 901 Diode 1SS254								3		
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Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
D512	276 0531 901	Diode 1SS254		C120	253 1181 904	Ceramic 0.01 µF/50V	CK45F1H103Z
D513	276 0531 901	Diode 1SS254		C121	253 1181 904	Ceramic 0.01 µF/50V	CK45F1H103Z
D514	276 0531 901	Diode 1SS254		C122	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
D517	276 0531 901	Diode 1SS254		C123	254 4264 012	Electrolytic 47µF/100V	CE04W2A470M
D523	276 0531 901	Diode 1SS254		C124	254 3056 975	Electrolytic 33µF/50V	CE04D1H330MBP (Bipole)
D524	276 0531 901	Diode 1SS254		C125	253 9031 920	BC Ceramic 0.1 µF/25V	CK45=1E104K
D530	276 0432 903	Diode 1SS270A		C126	254 4257 702	Electrolytic 3300 µF/25V	CE04W1E332MC
D531	276 0432 903	Diode 1SS270A		C127	254 4256 790	Electrolytic 2200µF/25V	CE04W1E222MC
D301	270 0402 000	Blodd 10021071		C128	254 4254 938	Electrolytic 47µF/16V	CE04W1C470M
ZD101	276 0479 908	Zener Diode HZS20-1	20V	C129	254 4254 938	Electrolytic 47µF/16V	CE04W1C470M
ZD101	276 0484 919	Zener Diode HZS33-2	33V	C130	254 4256 907	Electrolytic 10µF/25V	CE04W1E100M
ZD102 ZD105	276 0474 903	Zener Diode HZS12B-1	12V	C131	254 4256 907	Electrolytic 10µF/25V	CE04W1E100M
ZD103 ZD107	276 0474 903	Zener Diode HZS3B-3	3V	C132	254 4256 952	Electrolytic 220µF/25V	CE04W1E221M
ZD107 ZD109	276 0463 914	Zener Diode HZS6C-2	6V	C134	254 3058 708	Electrolytic 220µF/16V	CE04D1C221MBPC (Bipole)
ZD109 ZD301	276 0462 915	Zener Diode HZS6B-2	6V	C140	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M
ZD301 ZD303	276 0462 915	Zener Diode HZS6B-2	6V	C307	253 4538 949	Ceramic 100pF/50V	CC45SL1H101J
ZD305	276 0462 915	Zener Diode HZS6B-2	6V	C308	253 4538 949	Ceramic 100pF/50V	CC45SL1H101J
		Zener Diode HZS6B-2	6V	C309	253 4538 949	Ceramic 100pF/50V	CC45SL1H101J
ZD307		Zener Diode HZS6B-2	6V	C310	253 4538 949	Ceramic 100pF/50V	CC45SL1H101J
ZD308		Zener Diode HZS6B-2	6V	C311	253 4538 949	Ceramic 100pF/50V	CC45SL1H101J
ZD309	276 0462 915	Zener Diode HZS4A-2	4V	C311	253 4538 949	Ceramic 100pF/50V	CC45SL1H101J
ZD310	276 0455 919	Zener Diode HZS3A-3	3V	C312	253 1181 917	Ceramic 0.022µF/50V	CK45F1H223Z
ZD501	276 0452 925		6V	C314	253 1181 917	Ceramic 0.022µF/50V	CK45F1H223Z
ZD502	276 0462 915	Zener Diode HZS6B-2	6V	C315	253 4538 949	Ceramic 100pF/50V	CC45SL1H101J
ZD503	276 0462 915	Zener Diode HZS6B-2		C316	253 4538 949	Ceramic 100pF/50V	CC45SL1H101J
ZD504	276 0462 915	Zener Diode HZS6B-2	6V	C317	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
ZD505	276 0462 915	Zener Diode HZS6B-2	6V	C317	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
		included Carbon Film ±5% er to the Scematic Diagram		C319	253 4538 949	Ceramic 100pF/50V	CC45SL1H101J
ΔR114	244 2052 960	Metal Oxide 220 ohm fW (NB) Carbon Film 1 ohm	RS14B3A221JNBS (S)	C320	253 4538 949	Ceramic 100pF/50V	CC45SL1H101J
△R115	241 2387 908	Carbon Film 1 ohm 1/4W (NB) Carbon Film 1 ohm	RD14B2E010JNBS	C325	254 4260 964	Electrolytic 3.3µF/50V	CE04W1H3R3M
ΔR116	241 2387 908	Carbon Film 1 ohm	RD14B2E010JNBS	C336	254 4260 964	Electrolytic 3.3µF/50V	CE04W1H3R3M
△R126	241 2377 947	Carbon Film 100 ohm	RD14B2E101JNBS	C338	253 4538 949	Ceramic 100pF/50V	CC45SL1H101J
△R129	241 2377 947	Carbon Film 100 ohm 1/4W (NB) Metal Oxide 10 ohm	RD14B2E101JNBS	C339	253 4538 949	Ceramic 100pF/50V	CC45SL1H101J
△R130	244 2043 937	1W (NB) Metal Oxide 10 ohm	RS14B3A100JNBS (S)	C339	253 4536 949	Ceramic 0.022µF/50V	CK45F1H223Z
△R131	244 2043 937		RS14B3A100JNBS (S)	C371	253 1181 917	Ceramic 0.022µF/50V	CK45F1H223Z
△R455	241 2377 947	Carbon Film 100 ohm 1/4W (NB) Carbon Film 100 ohm	RD14B2E101JNBS	C372	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
△R456	241 2377 947	1/4W (NB) Metal Oxide 4.7 ohm	RD14B2E101JNBS	C384	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M
△R459	244 2051 987	1 1W (NB)	RS14B3A4R7JNBS (S) RS14B3A4R7JNBS (S)	C385	254 4258 905	Electrolytic 4.7µF/35V	CE04W1V4R7M
△R460	244 2051 987	Metal Oxide 4.7 ohm 1W (NB) Metal Oxide 0.22 ohm	RS14B3AR22JNBS (S)	C386	254 4258 905	Electrolytic 4.7 µF/35V	CE04W1V4R7M
△R469	244 2043 982	1W (NB)	The state of the control of the state of the	C387	253 1180 905	Ceramic 680pF/50V	CK45B1H681K
△R470	244 2043 982	1 1W (NB)	RS14B3AR22JNBS (S) RD14B2E100JNBS		253 1180 905	Ceramic 680pF/50V	CK45B1H681K
△R505	241 2375 907	Carbon Film 10 ohm 1/4W (NB)	RD14BZE1UUJINBS	C388	254 4261 921	Electrolytic 100µF/50V	CE04W1HIO1M
		V 111 VD 1001 abov	\/1000\/00EB104T	C389 C390	254 4261 921	Electrolytic 100µF/50V	CE04W1HIO1M
VR801	211 0749 107	Variable VR 100k ohm	V1620V20FB104T			Ceramic 15pF/50V	CC45SL1H1 50J
		5 11 1 17 1 1 10	DI/00 470 IDO	C391	253 4536 941 253 4536 941	Ceramic 15pF/50V	CC45SL1H1 50J
RA501	246 2080 006		RK99==473JP9	C392	254 4261 921	Electrolytic 100 µ F/50V	CE04W1H1O1M
RA502	246 2043 027		RK99==473JP10	C393	254 4261 921	Electrolytic 100µF/50V	CE04W1HIO1M
RA503	246 2081 018	· · · · · · · · · · · · · · · · · · ·	RK99==103JP16	C394	254 4260 980	1	CE04W1HIO0M
RA504	246 2081 018	Resistor Array 10k ohm×16	RK99==103JP16	C395	1	Electrolytic 10µF/50V	CF93A1H473J
	TORS GROUP		0144554114007	C399	256 1034 937	Metalized 0.047µF/50V	CF93A1H473J
C101	253 1181 904		CK45F1H103Z	C400	256 1034 937	Metalized 0.047µF/50V	
C102	254 4260 948		CE04W1H010M	C403	254 4260 948	Electrolytic 1µF/50V	CE04W1H01 0M
C103	254 4256 910		CE04W1E220M	C404	254 4260 948	Electrolytic 1µF/50V	CE04W1H01 0M
C104	254 4256 910		CE04W1E220M	C405	253 1179 961	Ceramic 330pF/50V	CK45B1H331K
C106	254 4260 045		CE04W1H010M	C406	253 1179 961	Ceramic 330pF/50V	CK45B1H331K
C108	253 1053 003		CK45E2H103P	C505	253 1181 904	Ceramic 0.01 µF/50V	CK45F1H103Z
C109	254 4260 980		CE04W1H100M	C506	254 4250 068	Electrolytic 1000 µ F/6.3V	CE04W0J10 2M
C110	254 4260 980		CE04W1H100M	C508	254 4254 938	Electrolytic 47 µF/16V	CE04W1C470M
C111	254 4424 700		CE04W==472MC	C509	254 4254 938	Electrolytic 47µF/16V	CE04W1C470M
C112	254 4424 700	· ·	CE04W==472MC	C571	254 4260 906	Electrolytic 0.1 µF/50V	CE04W1H0F1M
C113	254 4260 993	-	CE04W1H220M	C572	254 4260 906	Electrolytic 0.1 µ F/50V	CE04W1H0F1M
C114	253 9031 920	1	CK45=1E104K	C573	254 4260 948	Electrolytic 1µF/50V	CE04W1H01 0M
C115	254 3058 708	1	CE04D1C221MBPC (Bipole)	C574	254 4258 057	Electrolytic 100µF/35V	CE04W1VIO 1M
	253 1181 904	Ceramic 0.01 µF/50V	CK45F1H103Z	C575	253 1179 987	Ceramic 470pF/50V	CK45B1H47 1K
C117	1				000		
C117 C118 C119	253 1181 904 254 4260 948		CK45F1H103Z CE04W1H010M	C576 C577	253 1179 987 253 1179 987	Ceramic 470pF/50V Ceramic 470pF/50V	CK45B1H ₄ 7 1K CK45B1H ₄ 7 1K

1U-2410B P.W.B. UNIT (3) PARTS LIST

Remarks

Ref. No.

Remarks

CK45B1H102K

CE04W1H4R7M

CE04W1V221M

CE04W1C100M (SRA) CE04W1C100M (SRA)

CC45SL1H101J

CC45SL1H101J

CK45F1H103Z

CK45F1H103Z CE04W1C100M

CE04W1C100M CE04W1C100M

CE04W1C100M

CC45SL1H101J

CC45SL1H101J

CC45SL1H101J CC45SL1H101J

CE04W1H010M

CE04W1A101M CK45F1H103Z

CF93B2E224K

CK45B1H152K

CK45B1H152K

CK45B1H562K

CK45B1H562K

for C991,992

for C993,994

SBX1610-52

for C995,996

for D524 CST4.50 MGW

CF93B2A224K (GU)

CF93B2A224K (GU)

Part No.

205 0452 017 Style Pin

205 0343 032 3P Conn. Base (KR-PH)

205 0343 058 5P Conn. Base (KR-PH)

204 2529 000 8P PH-SAN Conn. Cord

204 0376 006 6P SAN-PH Conn. Cord

203 0419 067 1P SIN Conn. Assy

203 0383 067 1P SIN Conn. Assy

203 0385 023 1P SIN Conn. Assy

Part Name

This unit is wholly used in the receiver section.

Ref. No.	Part No.		Part Name	Remarks
	IDUCTORS G			
IC109			IC NJM2068DDC	
IC701	263 0743 0	007	IC NJM2082DD	
	RS GROUP			DD44D05405145
R120	241 2405 9		Carbon Film 1M ohm 1/4W	RD14B2E105J (5)
R121	241 2402 9		Carbon Film 39k ohm 1/4W	RD14B2E393J (5)
R122	241 2397 9		Carbon Film 220 ohm 1/4W	RD14B2E221J (5)
R123	241 2401 9		Carbon Film 22k ohm 1/4W	RD14B2E223J (5)
R124	241 2400 9		Carbon Film 10k ohm 1/4W	RD14B2E103J (5)
R125	241 2398 9		Carbon Film 1k ohm 1/4W	RD14B2E102J (5)
R126	241 2396 9		Carbon Film 100 ohm 1/4W	RD14B2E101J (5)
R128	241 2402 9		Carbon Film 39k ohm 1/4W	RD14B2E393J (5)
R202	241 2403 9		Carbon Film 150k ohm 1/4W	RD14B2E154J (5)
R203	241 2403 9		Carbon Film 150k ohm 1/4W	RD14B2E154J (5)
R204	241 2396 9		Carbon Film 100 ohm 1/4W	RD14B2E101J (5)
R205	241 2396 9		Carbon Film 100 ohm 1/4W	RD14B2E101J (5)
R220	241 2405 9		Carbon Film 1M ohm 1/4W	RD14B2E105J (5)
R220	241 2400 9		Carbon Film 4.7k ohm 1/4W	RD14B2E472J (5)
R221	241 2400 9		Carbon Film 4.7k ohm 1/4W	RD14B2E472J (5)
R221	241 2402 9		Carbon Film 39k ohm 1/4W	RD14B2E393J (5)
R222	241 2400 9		Carbon Film 4.7k ohm 1/4W	RD14B2E472J (5)
R222	241 2397 9		Carbon Film 220 ohm 1/4W	RD14B2E221J (5)
R223	241 2400 9		Carbon Film 4.7k ohm 1/4W	RD14B2E472J (5)
R223	241 2401 9		Carbon Film 22k ohm 1/4W	RD14B2E223J (5)
R224	241 2400 9		Carbon Film 10k ohm 1/4W	RD14B2E103J (5)
R224	241 2405 9	74	Carbon Film 1M ohm 1/4W	RD14B2E105J (5)
R225	241 2398 9	55	Carbon Film 1k ohm 1/4W	RD14B2E102J (5)
R225	241 2405 9	74	Carbon Film 1M ohm 1/4W	RD14B2E105J (5)
R226	241 2397 9	72	Carbon Film 470 ohm 1/4W	RD14B2E471J (5)
R226	241 2396 9	28	Carbon Film 100 ohm 1/4W	RD14B2E101J (5)
R227	241 2397 9	72	Carbon Film 470 ohm 1/4W	RD14B2E471J (5)
R228	241 2402 9	35	Carbon Film 39k ohm 1/4W	RD14B2E393J (5)
R701	241 2399 9	38	Carbon Film 2.2k ohm 1/4W	RD14B2E222J (5)
R702	241 2399 9	38	Carbon Film 2.2k ohm 1/4W	RD14B2E222J (5)
R705	241 2402 9	93	Carbon Film 68k ohm 1/4W	RD14B2E683J (5)
R706	241 2402 9	93	Carbon Film 68k ohm 1/4W	RD14B2E683J (5)
R709	241 2398 9	13	Carbon Film 680 ohm 1/4W	RD14B2E681J (5)
R710	241 2398 9	13	Carbon Film 680 ohm 1/4W	RD14B2E681J (5)
R711	241 2404 9	33	Carbon Film 270k ohm 1/4W	RD14B2E274J (5)
R712	241 2404 9	33	Carbon Film 270k ohm 1/4W	RD14B2E274J (5)
R713	241 2401 9	78	Carbon Film 22k ohm 1/4W	RD14B2E223J (5)
R714	241 2401 9	78	Carbon Film 22k ohm 1/4W	RD14B2E223J (5)
R715	241 2396 9	28	Carbon Film 100 ohm 1/4W	RD14B2E101J (5)
R716	241 2396 9	28	Carbon Film 100 ohm 1/4W	RD14B2E101J (5)
R717	241 2397 9	72	Carbon Film 470 ohm 1/4W	RD14B2E471J (5)
R718	241 2397 9		Carbon Film 470 ohm 1/4W	RD14B2E471J (5)
R719	241 2403 9		Carbon Film 100k ohm 1/4W	RD14B2E104J (5)
R720	241 2403 9			RD14B2E104J (5)
	0	_		
∆R477	244 2055 9	41	Metal Oxide 330 ohm 1W	RS14B3A331JNBS (
ΔR478	244 2055 9	2000000	(NB) Metal Oxide 330 chm 1W (NB)	R\$14B3A331JNBS (
VR101	211 0766 0	09	Variable VR 50k ohm	V0920V15FB503
VR102	211 0766 0	09	Variable VR 50k ohm	V0920V15FB503
	ORS GROUP			
C121	255 1203 9		Plastic Film 0.0018µF/50V	CQ93M1H182J
C122	255 1216 9		Plastic Film 0.022µF/50V	CQ93M1H223J
C123	255 1216 9	- 1	Plastic Film 0.022µF/50V	CQ93M1H223J
C124	254 4260 9		Electrolytic 1 µ F/50V	CE04W1H010M
C125	253 4448 9	- 1	Ceramic 330pF/50V	CC45SL1H331J
C126	253 4444 9		Ceramic 220pF/50V	CC45SL1H221J
C127	254 4254 9	09	Electrolytic 10µF/16V	CE04W1C100M
C200	253 4443 9	08	Ceramic 200pF/50V	CC45SL1H201J
C201	253 4443 9	08	Ceramic 200pF/50V	CC45SL1H201J
C214	253 4436 9		Ceramic 100pF/50V	CC45SL1H101J
C215	253 4436 9	- 1	Ceramic 100pF/50V	CC45SL1H101J
	253 4436 9	- 1	Ceramic 100pF/50V	CC45SL1H101J
C216		- 1	Ceramic 100pF/50V	CC45SL1H101J
C216 C217	253 4436 9			
	253 4436 9 255 1203 9		Plastic Film 0.0018µF/50V	CQ93M1H182J
C217		01	Plastic Film 0.0018µF/50V Plastic Film 0.022µF/50V	CQ93M1H182J CQ93M1H223J
C217 C221 C222	255 1203 9 255 1216 9	01 01	Plastic Film 0.022µF/50V	CQ93M1H223J
C217 C221	255 1203 9	01 01 48		

				_
Ref. No.	Part No.	Part Name	Remarks	
C224	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M	
C225	253 4448 903		CC45SL1H331J	
C226	253 4444 907	Ceramic 220pF/50V	CC45SL1H221J	
C227	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M	
C315	253 1146 907	Ceramic 0.01µF/50V	CK45F1H103Z	
C316	253 1146 907	Ceramic 0.01µF/50V	CK45F1H103Z	
C397	253 1181 917	Ceramic 0.022 pF/50V	CK45F1H223Z	
C398	253 1181 917	Ceramic 0.022 pF/50V	CK45F1H223Z	
C701	254 4260 948	Electrolytic 1µF/50V	CE04W1H010M	
C702	253 1146 907	Ceramic 0.01µF/50V	CK45F1H103Z	
C705	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M	
C706	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M	
C707	254 4250 929	Electrolytic 100 µF/6.3V	CE04W0J101M	
C708	254 4250 929	Electrolytic 100 µ F/6.3V	CE04W0J101M	
C711	255 1213 904	Plastic Film 0.012µF/50V	CQ93M1H123J	
C712	255 1213 904	Plastic Film 0.012µF/50V	CQ93M1H123J	
C713	255 1206 908	Plastic Film 0.0033 µF/50V	CQ93M1H332J	
C714	255 1206 908	Plastic Film 0.0033 pF/50V	CQ93M1H332J	
C715	254 4254 909		CE04W1C100M	
C716	254 4254 909	Electrolytic 10µF/16V	CE04W1C100M	
OTHER (GROUP			Q'ty
	_	(P.W.Board)		(1)
	204 8370 004			1
		6P Pin Jack (S-GND)		1
L701,702	235 9003 002	FTZ Choke Coil		2
	205 0536 056	10P Conn. Socket		1
	203 8332 007			1
	205 0343 032	1		1
CN5C	203 8216 042	5P KR-DA Conn. Cord		1
This unit is	wholly used	UNIT PARTS LIST		
Ref. No.	Part No.	Part Name	Remarks	_
	NDUCTORS GR			
TR001		Transistor 2SD667A (C)	'	
TR002		Transistor 2SD667A (C)		
TR003	272 0025 907	Transistor 2SB562 (C)		
D001	276 0432 903	Diode 1SS270A		
D002	276 0432 903	Diode 1SS270A		
	DE CECULE			_

Ref. No.	P	art No		Part Name	Remarks	
SEMICON	IDUC	TORS	GRO	UP		
TR001	274	0060	900	Transistor 2SD667A (C)		
TR002	274	0060	900	Transistor 2SD667A (C)		l
TR003	272	0025	907	Transistor 2SB562 (C)		ı
D001	276	0432	903	Diode 1SS270A		
D002	276	0432	903	Diode 1SS270A		
RESISTO	RS GI	ROUP				
R001	241	2398	955	Carbon Film 1k ohm 1/4W	RD1482 E102J (5)	
R002	241	2396	928	Carbon Film 100 ohm 1/4W	RD1482 E101J (5)	
R003	241	2396	928	Carbon Film 100 ohm 1/4W	RD1482 E101J (5)	
R004	241	2398	955	Carbon Film 1k ohm 1/4W	RD1482 E102J (5)	
OTHER G	ROUI	P				Q'ty
		_		(P.W.Board)		(1)
CN001	205	0343	061	6P Conn. Base (KR-PH)		1
CN900	205	0805	004	5P Conn. Socket (9176)		1_

1U-2528 RESET UNIT PARTS LIST

This unit is wholly used in the cassette deck section

Ref. No.	Part No.).	Part Name	le marks	
SEMICO	NDUC	TORS	GRO	UP		
TR001	269	0020	906	Transister DTC114ES	Built in Resistor	
TR002	269	0040	902	Transister DTC144ES	Built in Resistor	
RESISTO	RS GI	ROUP				
R001	241	2400	995	Carbon Film 10 kohm 1/4W	RD1412 E103J (5)	
R002	241	2400	995	Carbon Film 10 kohm 1/4W	RD1482 €103J (5)	
R003	241	2398	955	Carbon Film 1 kohm 1/4W	RD1482 €102J (5)	
CAPACIT	OR G	ROUP				
C001	256	1035	952	Metalized 0.47 µ F/50V	CF93/11-474J	
OTHER C	ROU	Р				Q'ty
				(P.W.Board)		(1)
CN001	205	0343	045	4P Conn. Base (KR-PH)		1

Ref. No.

C578

C579

C580

C601

C602

C603

C604

C605 C606

C607 C608

C609

C610

C611

C612 C777

C778

C779 C801

C802

C990

C991

C992

C993

C994

C995 C996

X501

FL501

RL301 L301,302

CB301

CB302

CN5B.5C

CN5A

CN15A

CN16A

CN8A

CN12A CN10A,10C

OTHER GROUP

Part No.

Part Name

253 1180 921 Ceramic 1000pF/50V

254 4260 977 Electrolytic 4.7 µF/50V

254 4258 060 Electrolytic 220 µF/35V

254 4193 905 Electrolytic 10µF/16V

253 4538 949 Ceramic 100pF/50V

253 4538 949 Ceramic 100pF/50V

253 1181 904 Ceramic 0.01 µF/50V

253 1181 904 Ceramic 0.01 µF/50V

254 4193 905 Electrolytic 10µF/16V

254 4254 909 Electrolytic 10µF/16V

254 4254 909 Electrolytic 10µF/16V 254 4254 909 Electrolytic 10µF/16V

253 4538 949 Ceramic 100pF/50V

254 4260 948 Electrolytic 1 µ F/50V

254 4252 930 Electrolytic 100 µF/10V

256 1049 702 Metalized 0.22µF/250V 253 1005 006 Ceramic 1500pF/50V

253 1181 904 Ceramic 0.01 µF/50V

253 1005 006 Ceramic 1500pF/50V

253 1063 006 Ceramic 5600pF/50V

253 1063 006 Ceramic 5600pF/50V

256 1044 008 Metalized 0.22µF/100V

256 1044 008 Metalized 0.22µF/100V

125 9002 007 UL Tube (L=10)

399 9025 009 Ceramic Vibrator 393 4133 008 FLD (FIP19AM10)

461 0496 026 Spacer 461 0415 007 Rubber Sheet

206 1015 029 Fuse 1A T

202 0040 909 Fuse Clip 214 0154 005 Relay(VB24SMBU)

235 0068 004 Inductor 1mH 204 8266 008 4P Pin Jack (S-GND) 204 8406 004 1P Pin Jack 205 0592 029 4P Push Terminal

204 8284 022 15P System Socket

205 0730 056 13P System Socket (BU)

205 0606 025 2P Wrapping Terminal 205 0535 073 5P Conn. Base

205 0739 057 15P Conn. Socket

205 0739 060 16P Conn. Socket

205 0233 058 5P EH Conn. Base

205 0740 059 15P Conn. Base 205 0740 062 16P Conn. Base

205 0535 002 8P Conn. Base

205 0535 028 12P Conn. Base

 205
 0536
 056
 10P Conn. Socket

 204
 2285
 027
 10P DA-DA Conn. Cord

 203
 0469
 033
 1P Contact Assy

 203
 0469
 046
 1P Contact Assy

 203
 0497
 018
 1P Contact Assy

SW501~513 212 5604 910 Tact Switch

CN33A,33B | 205 0736 005 | 33P FFC Base

CN10A.10B 205 0535 057 10P Conn. Base

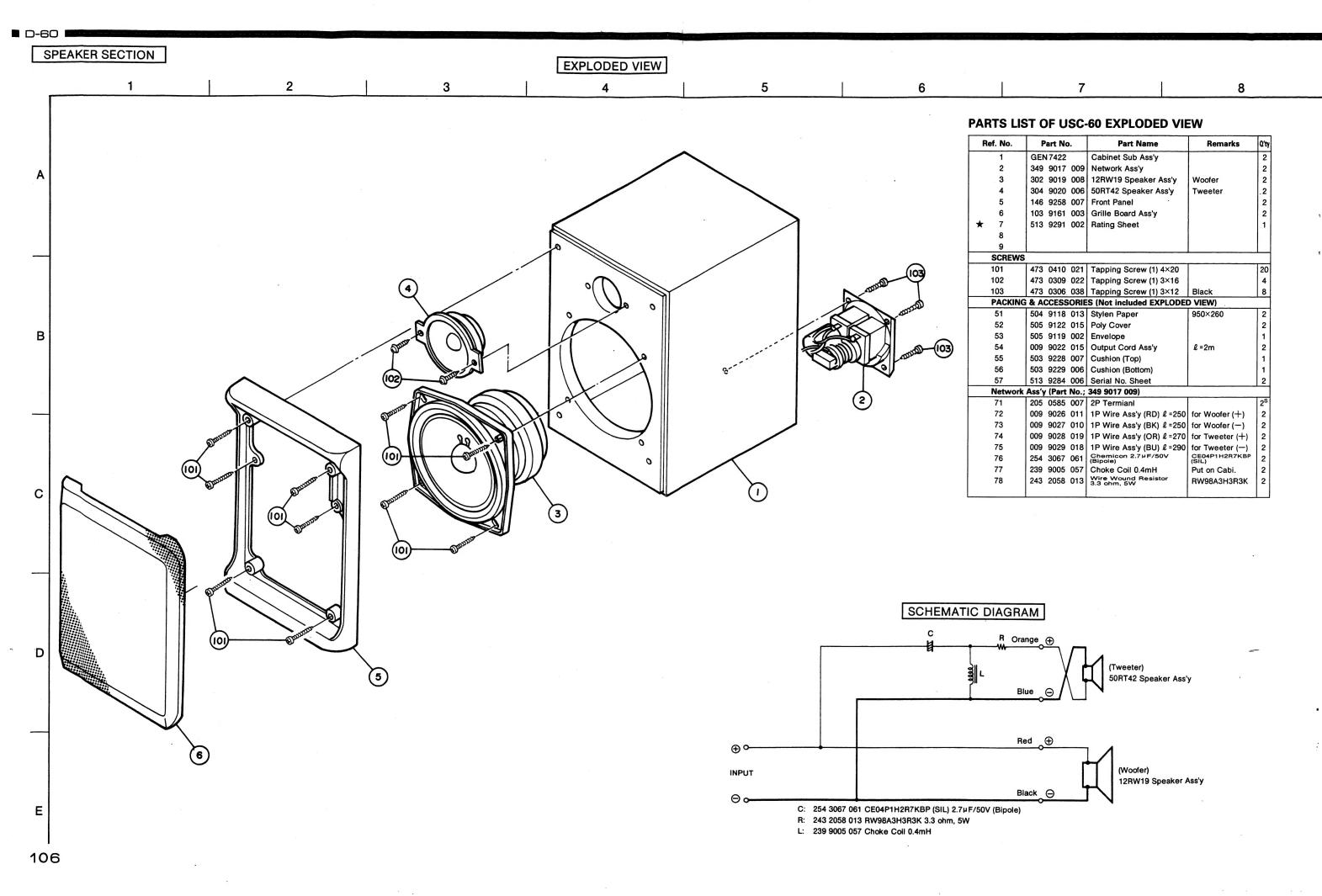
△F102,103 206 1015 058 Fuse 1.6A

499 0150 008 Remocon Receiver

125 9002 010 UL Tube (L=5) 125 9006 075 UL Tube (L=20)

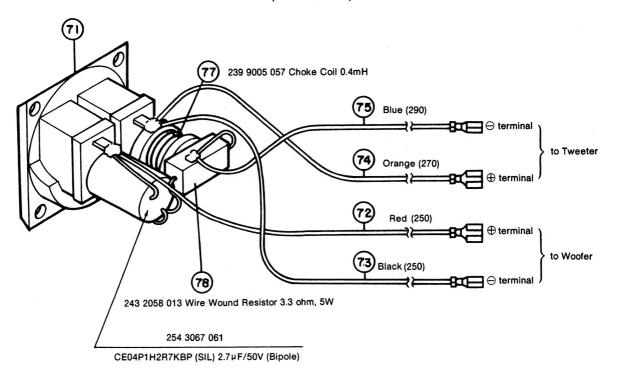
(P.W.Board)

254 4193 905 Electrolytic 10 µ µ F/16V

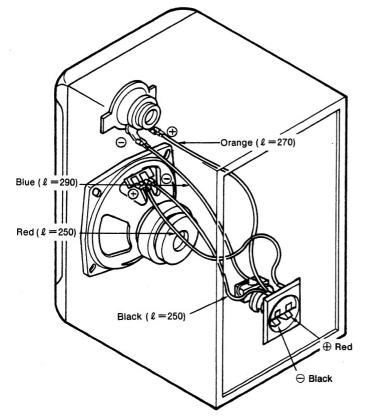


SPEAKER SECTION

NETWORK Ass'y (349 9017 009)



WIRE FORMING



- ① Set the network assembly so that the red pin (+) is at the right, then fasten it using the four 3×12 tapping screws (1).
- ② For the tweeter, connect the orange lead wire to the (+) side ($\ell=270 \, \mathrm{mm}$), the blue lead wire to the (-) side. ($\ell=290 \, \mathrm{mm}$)
- 3 For the woofer, connect the red lead wire to the (+) side, the black lead wire to the (-) side. ($\ell = 250 \text{mm}$)